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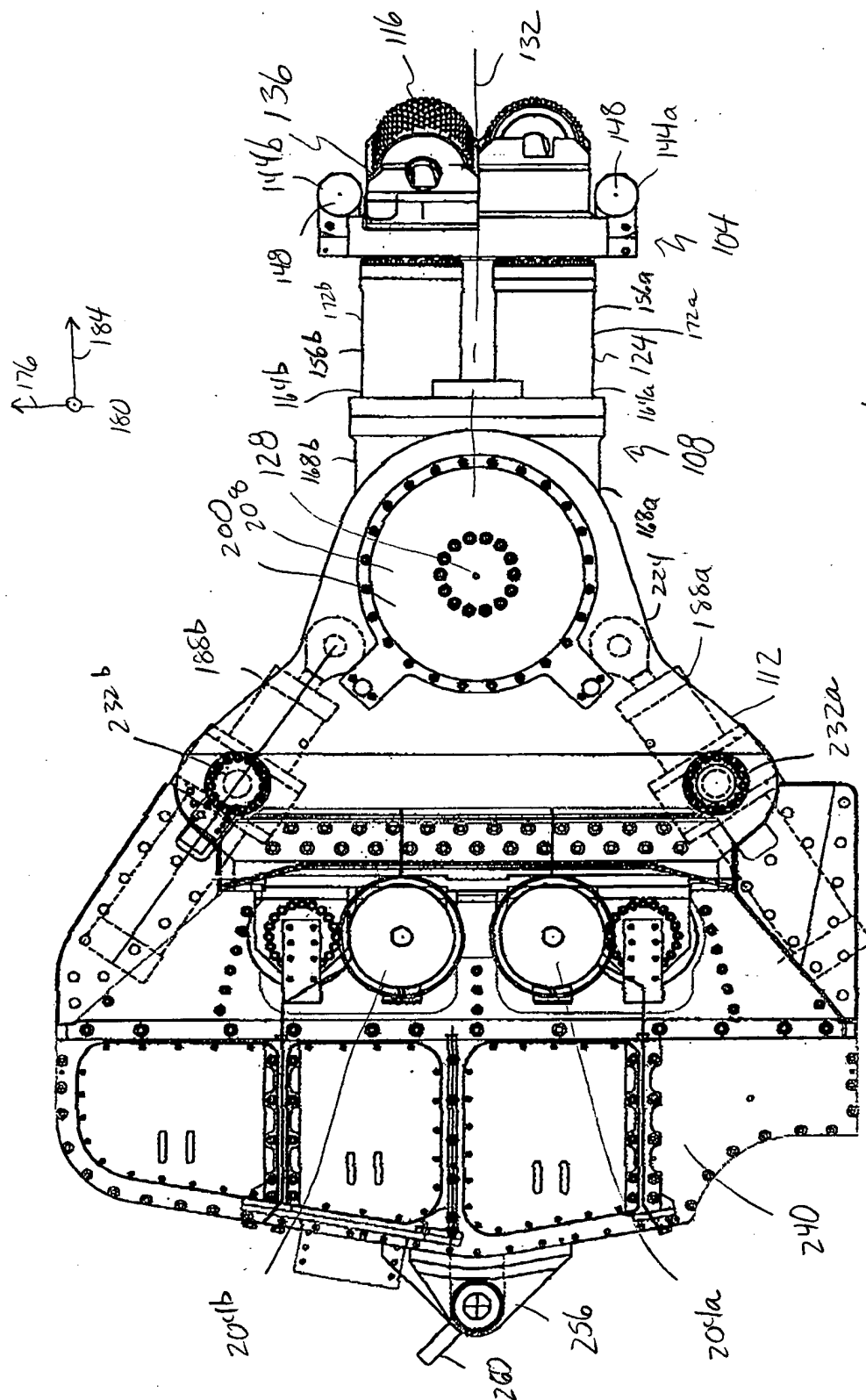
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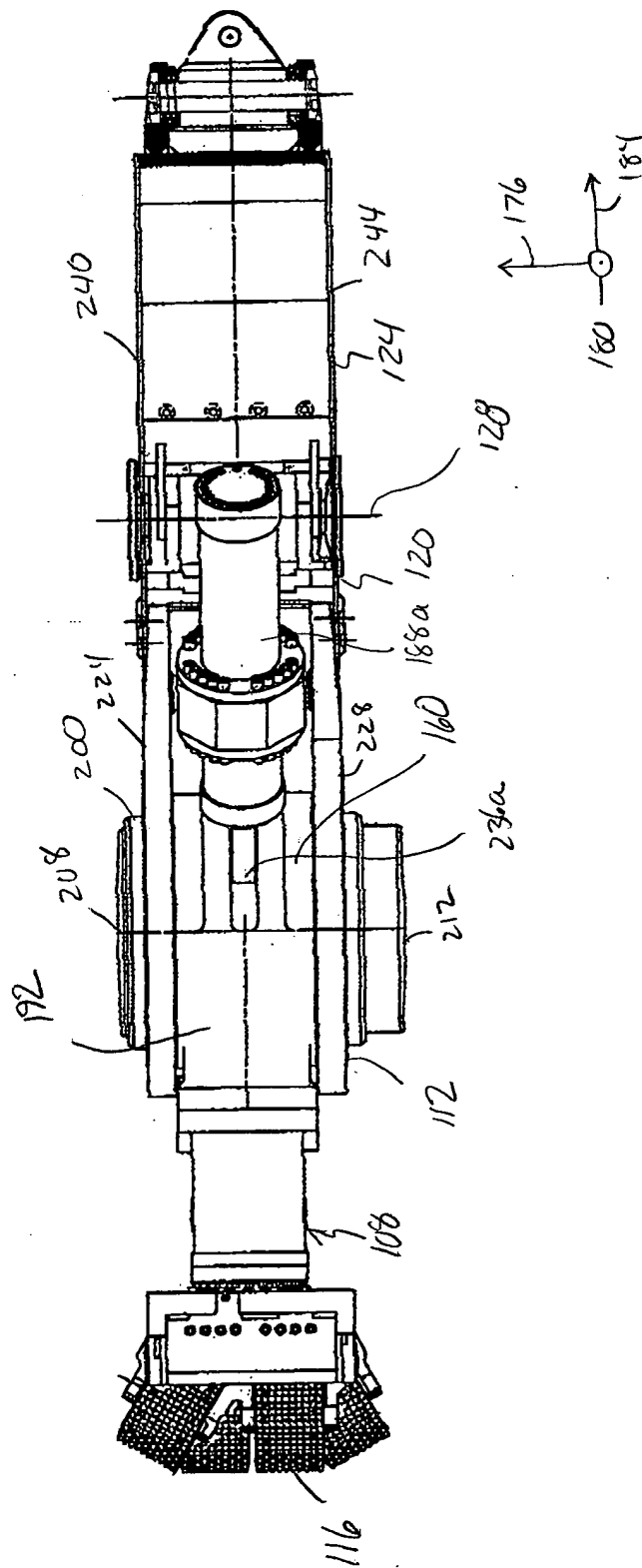
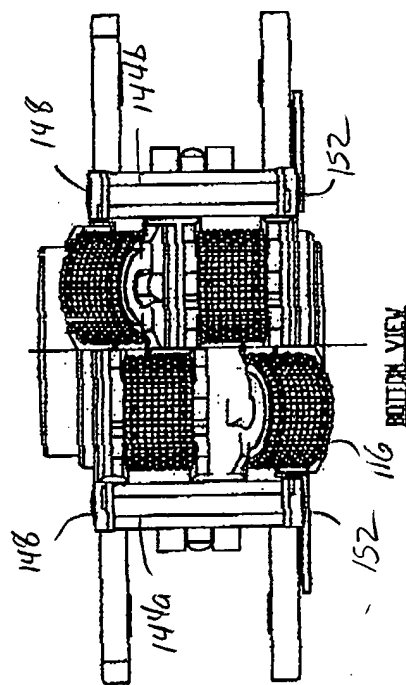
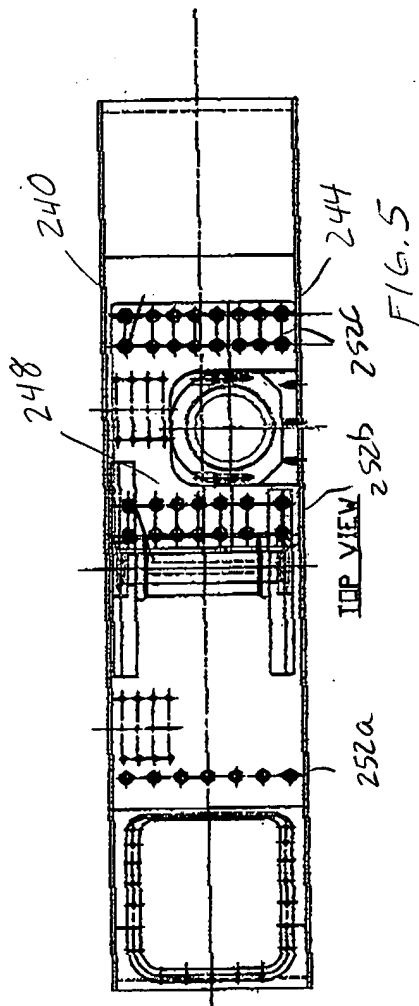
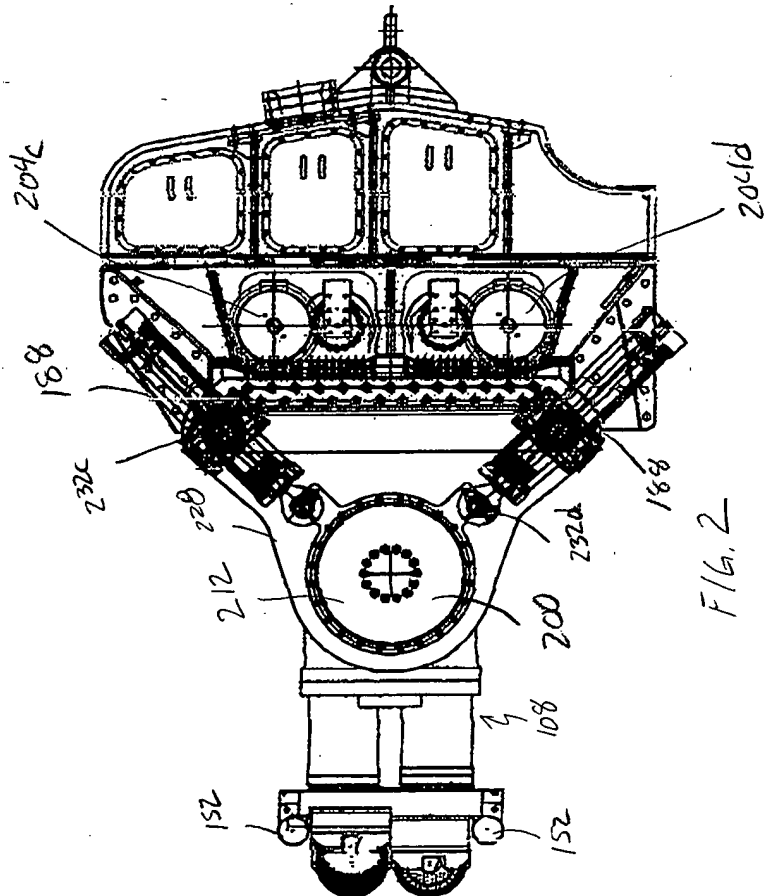
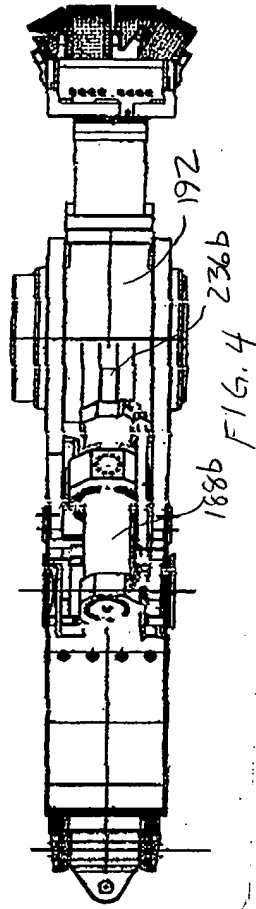
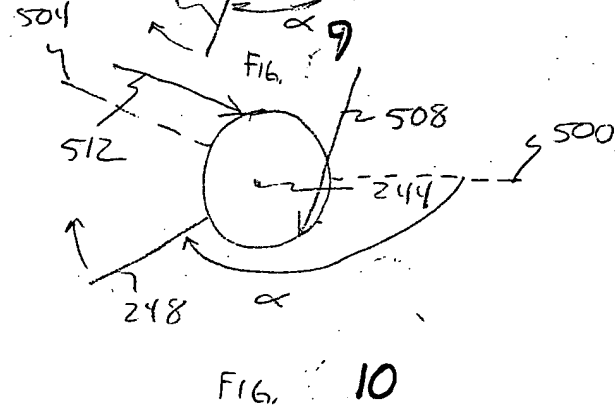
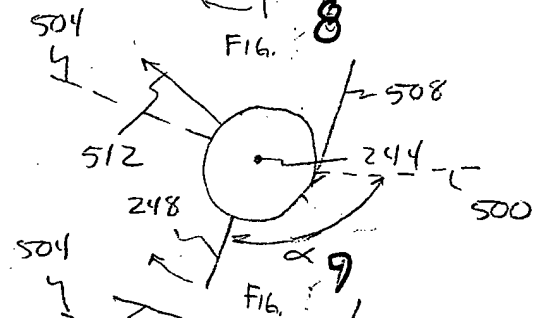
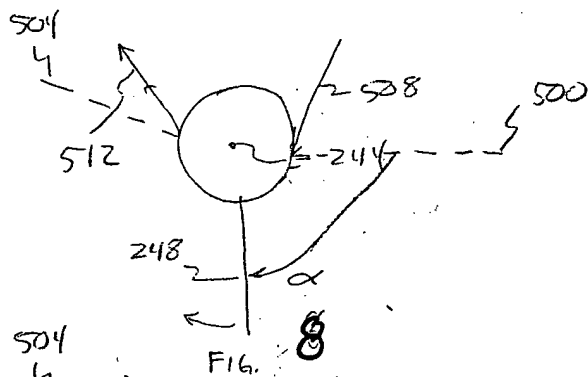
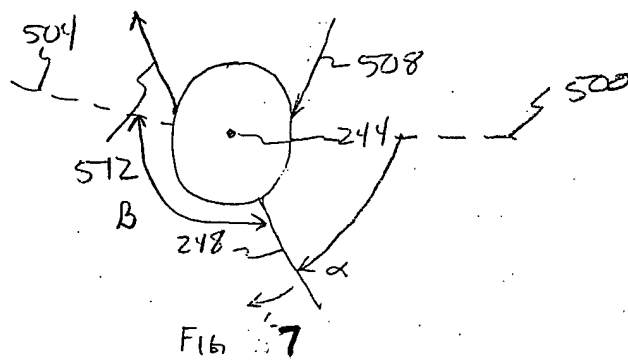


FIG. 3







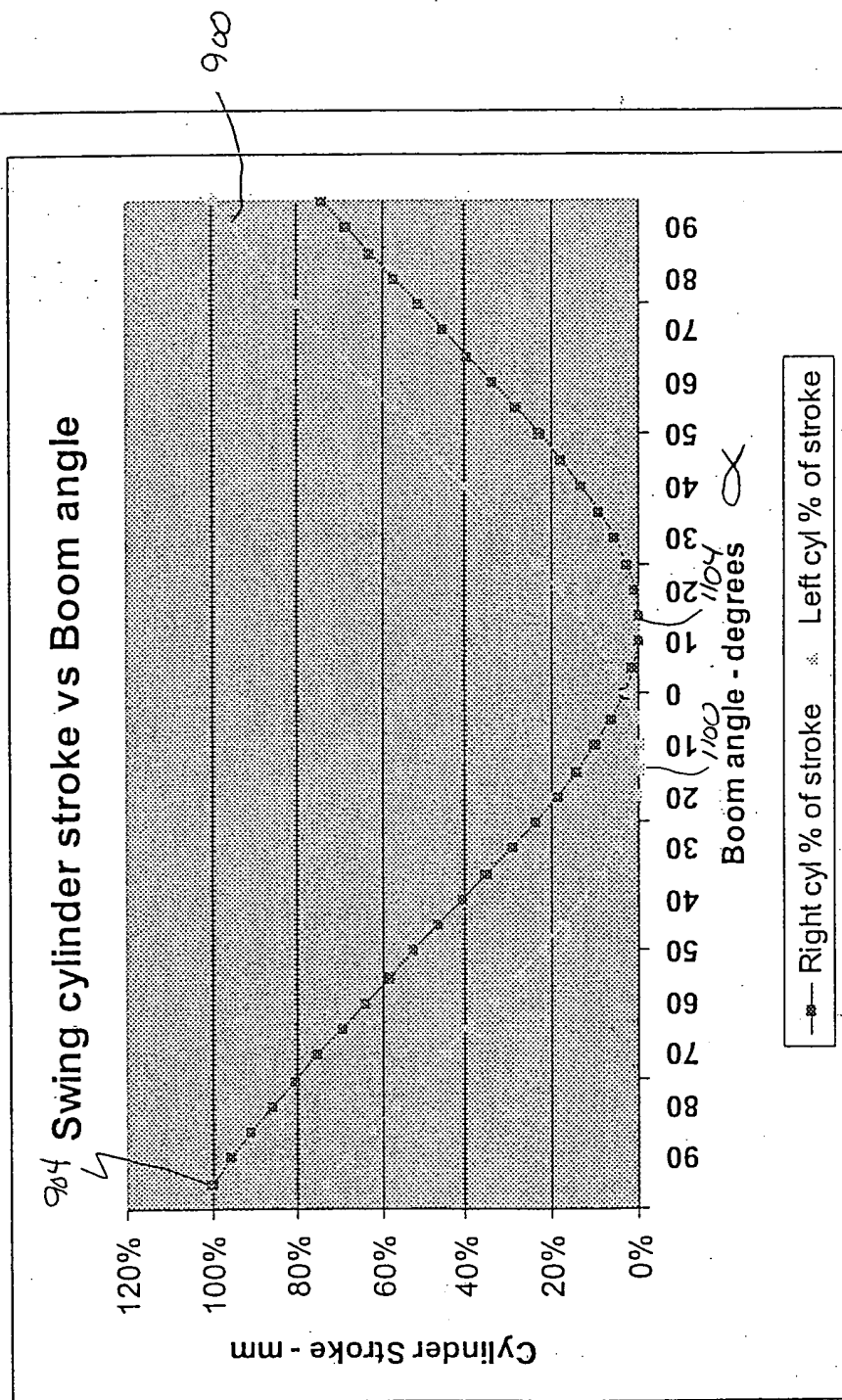


Fig. 11

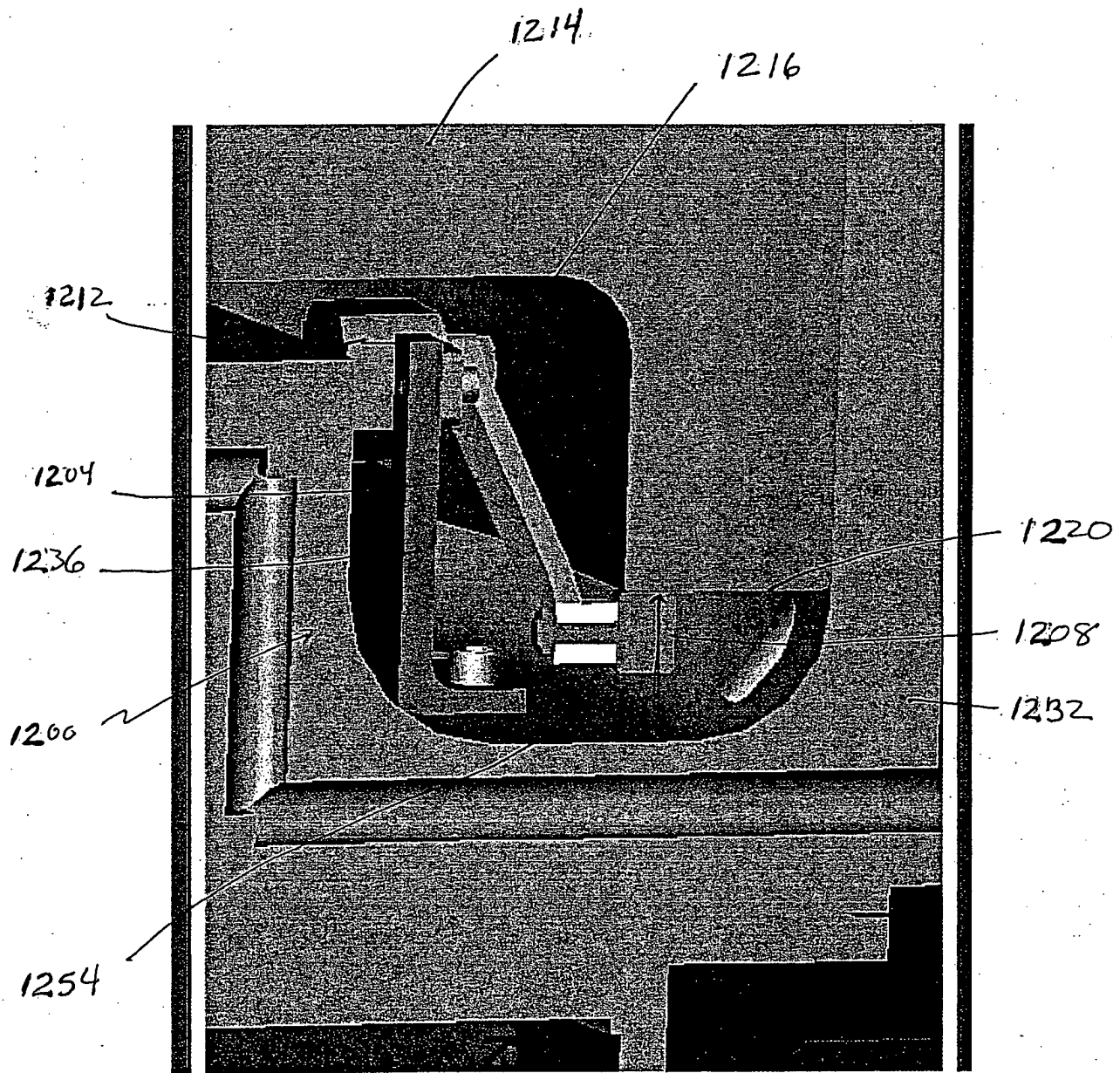


FIG. 12



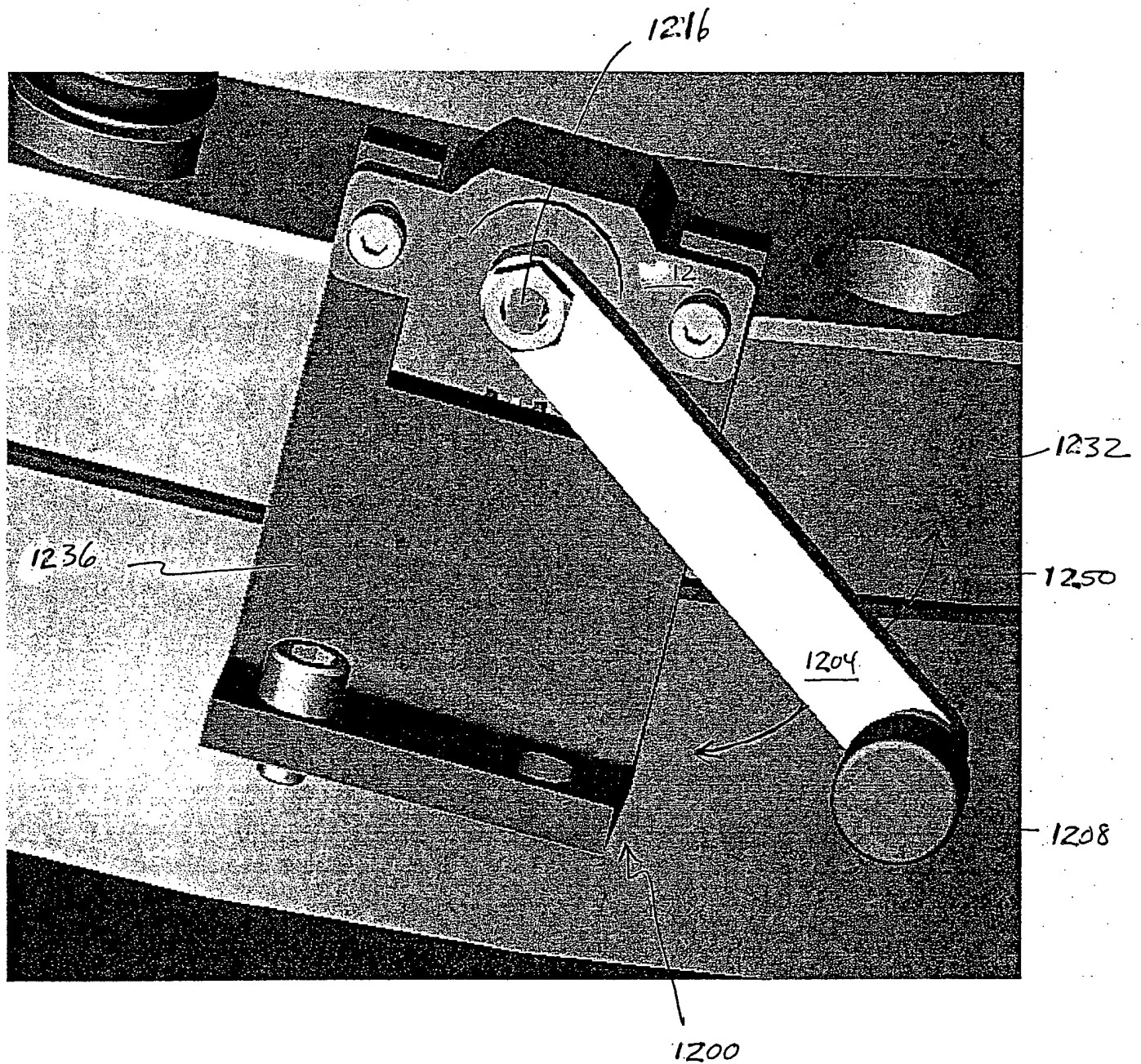


FIG. 13

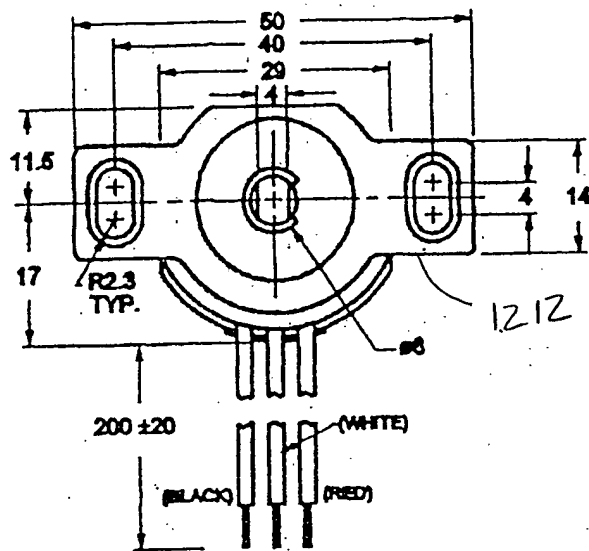


FIG. 14

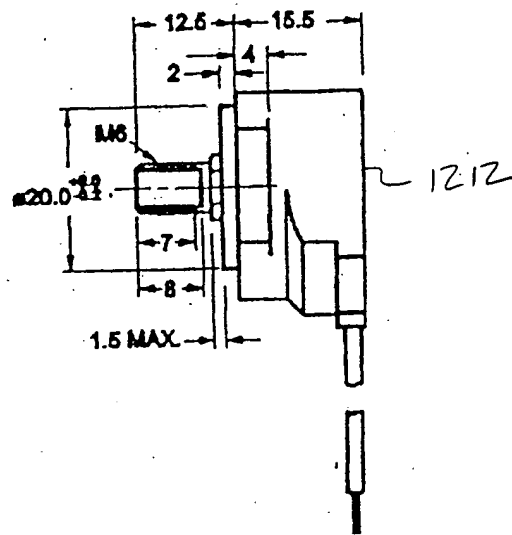
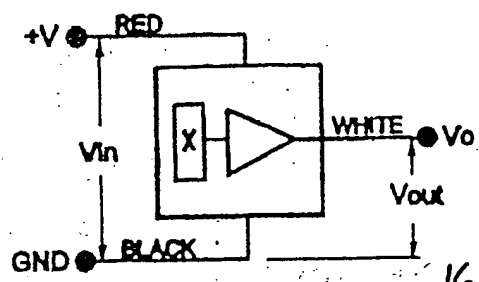


FIG. 15



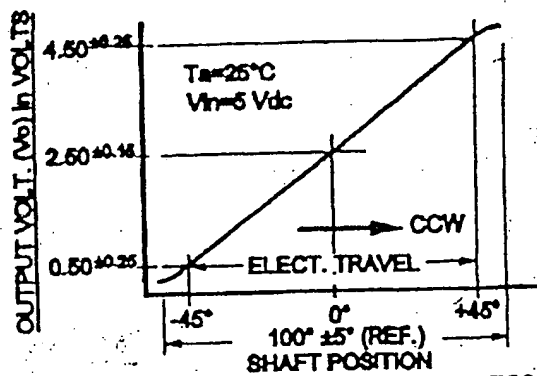


FIGURE 3 OUTPUT CHARACTERISTICS

FIG. 17

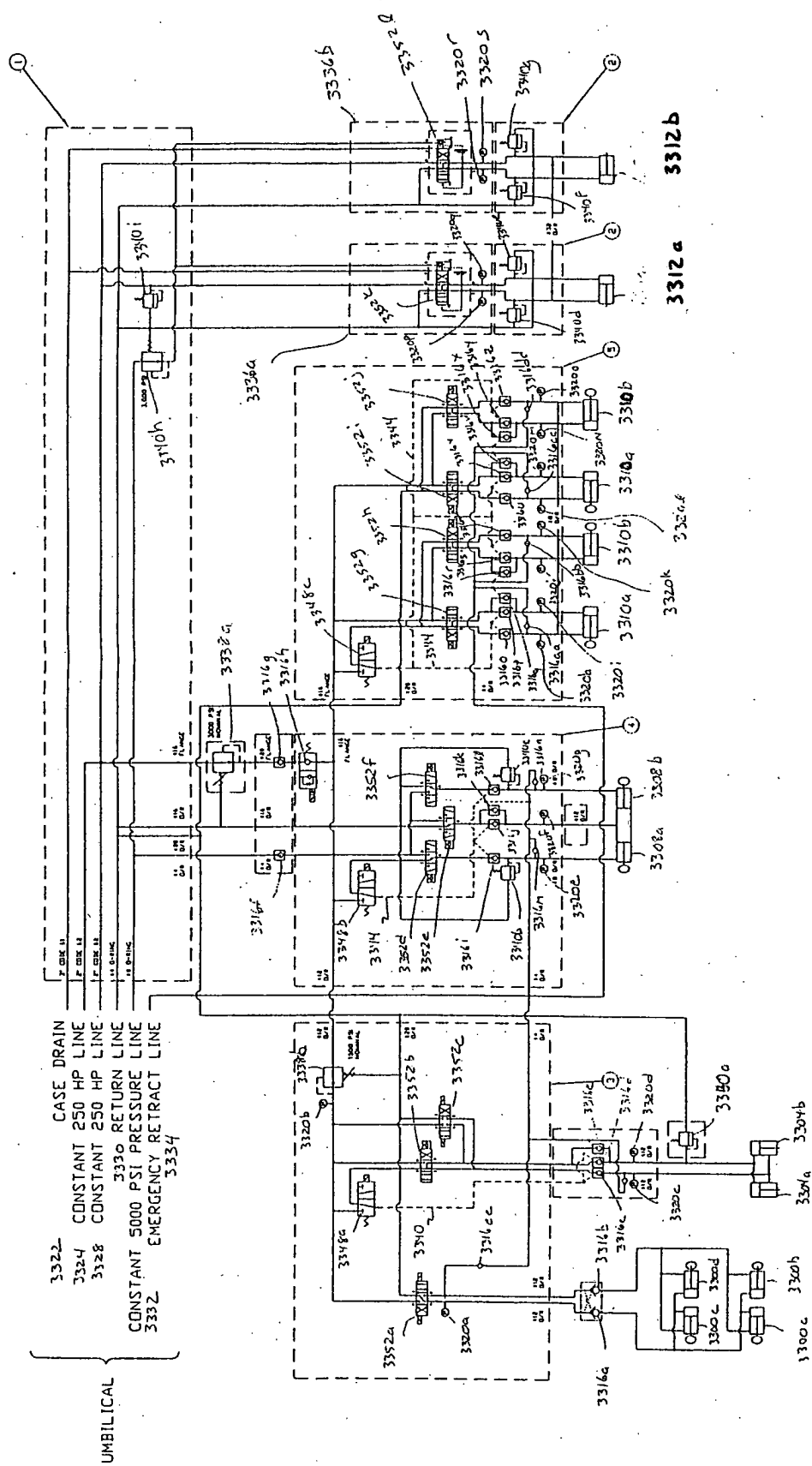


Fig. 18

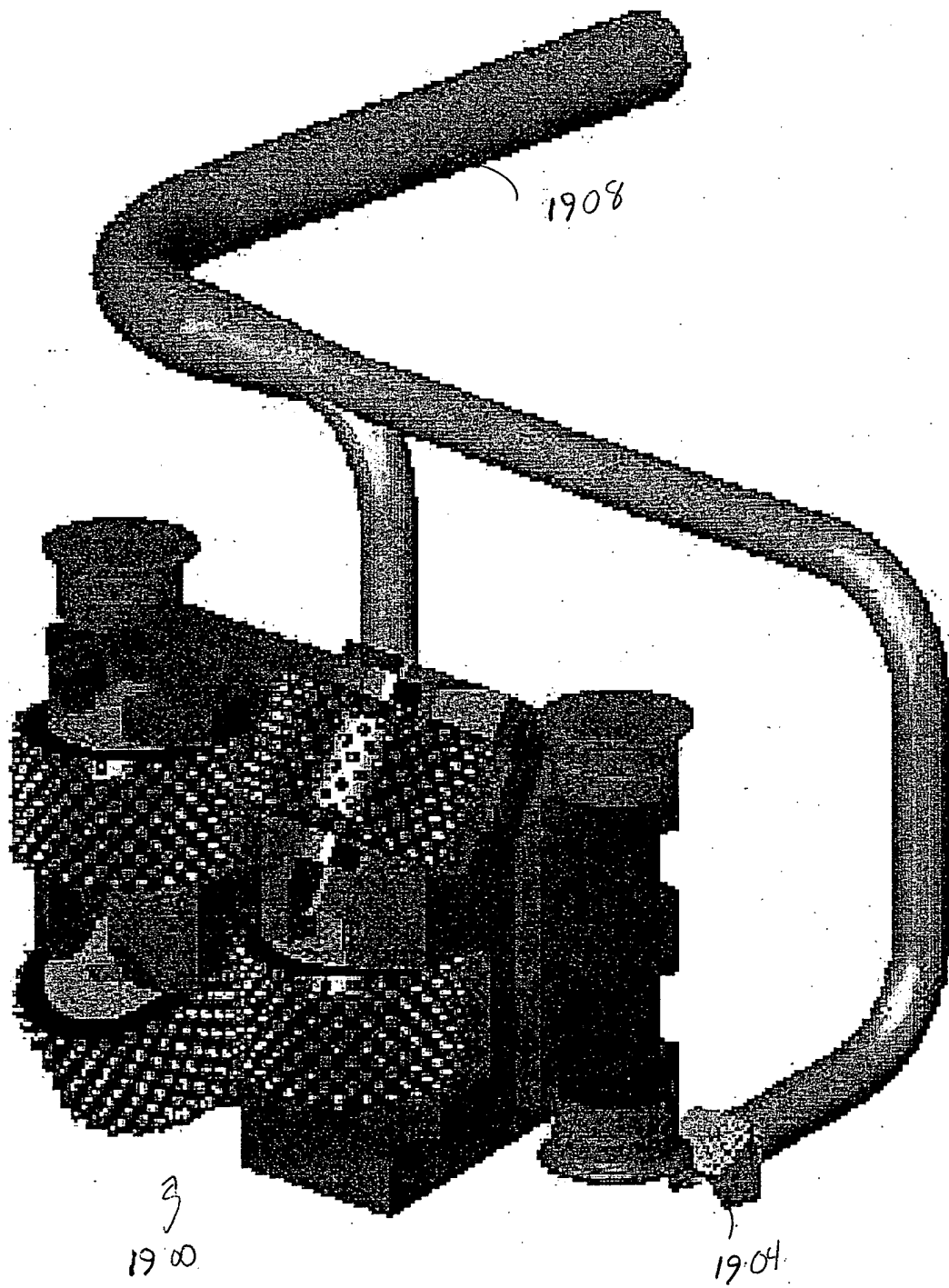


FIG. 19

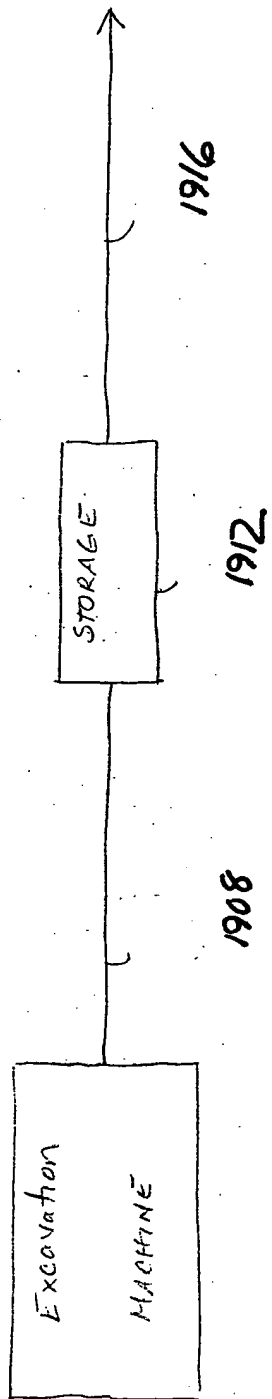


Fig. 20



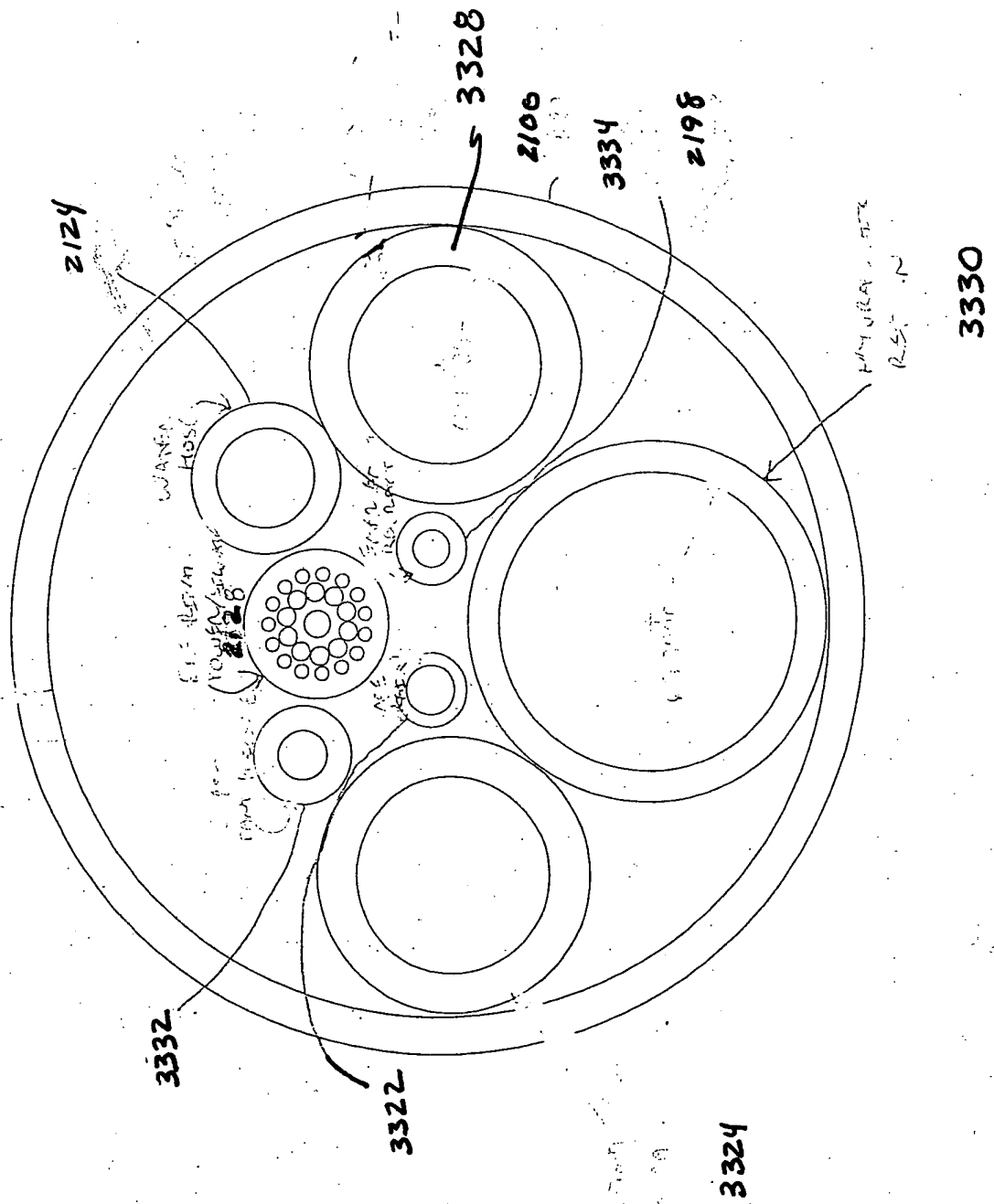


Fig. 12

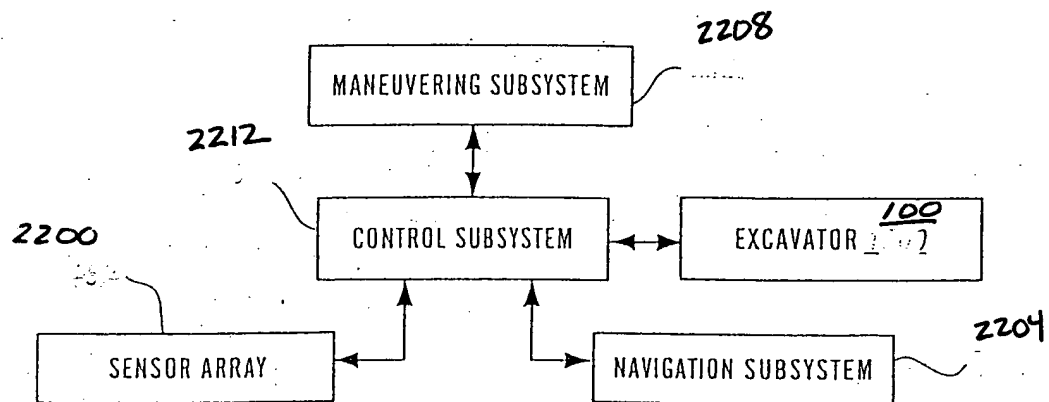


FIG. 22

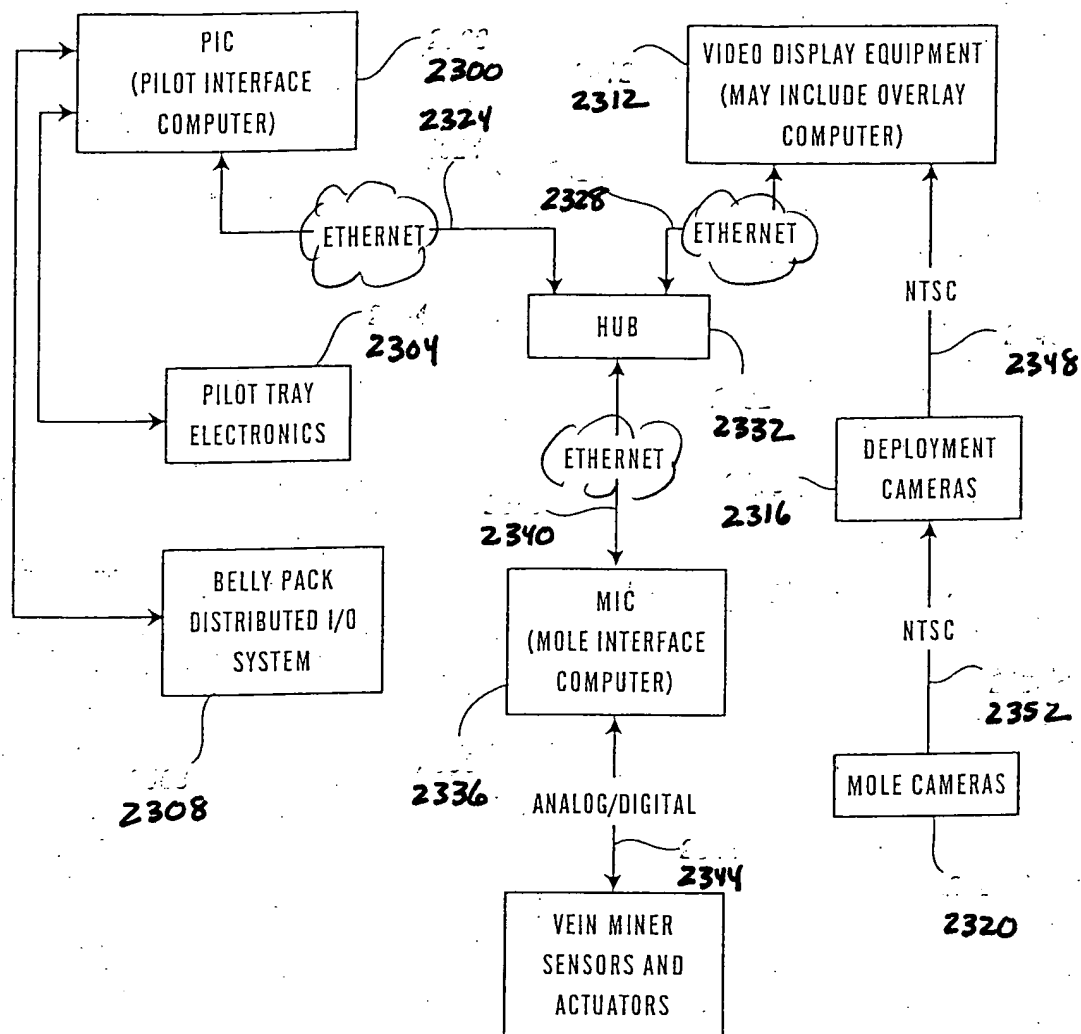
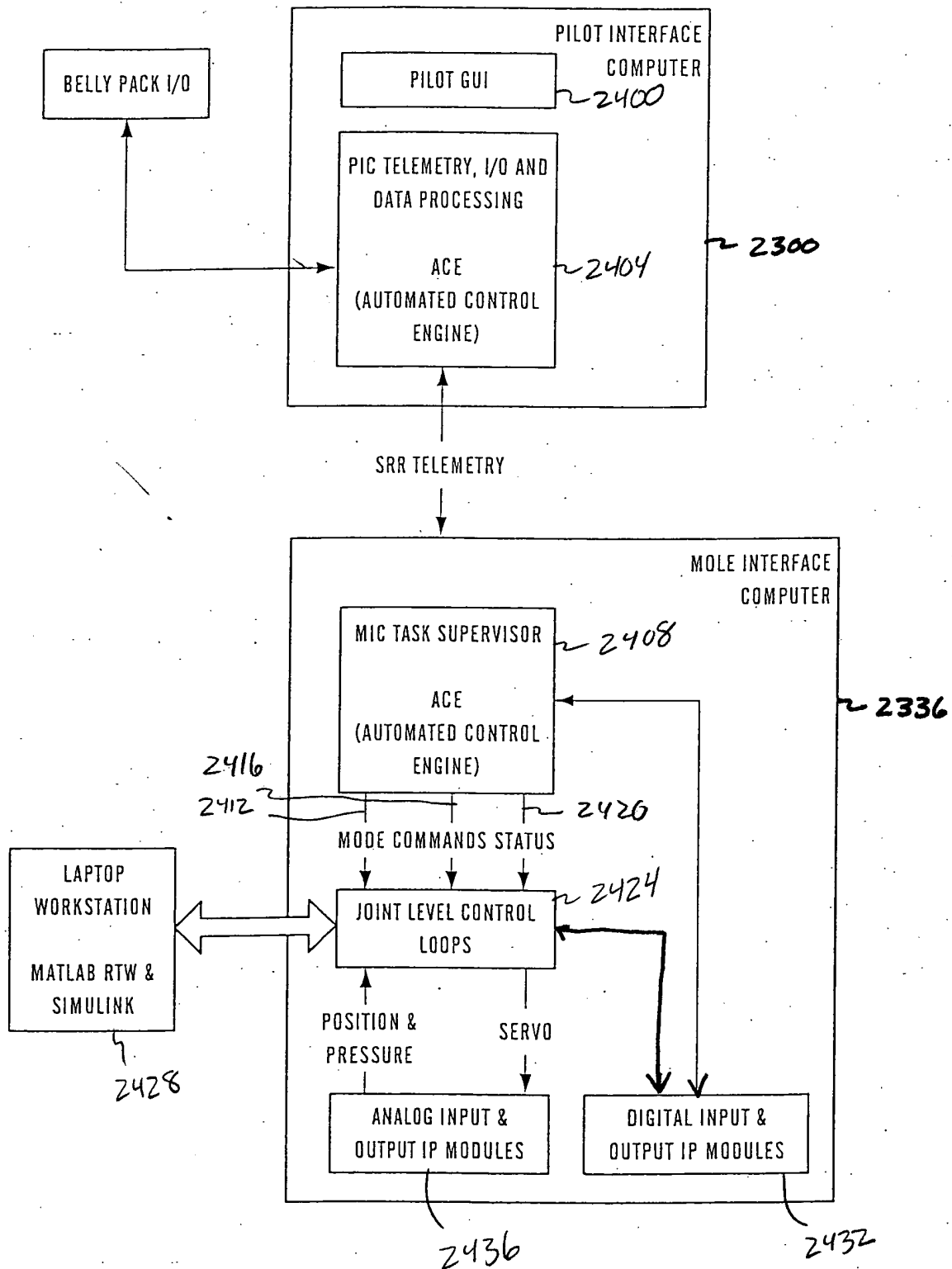


FIG. 23

FIG. 24



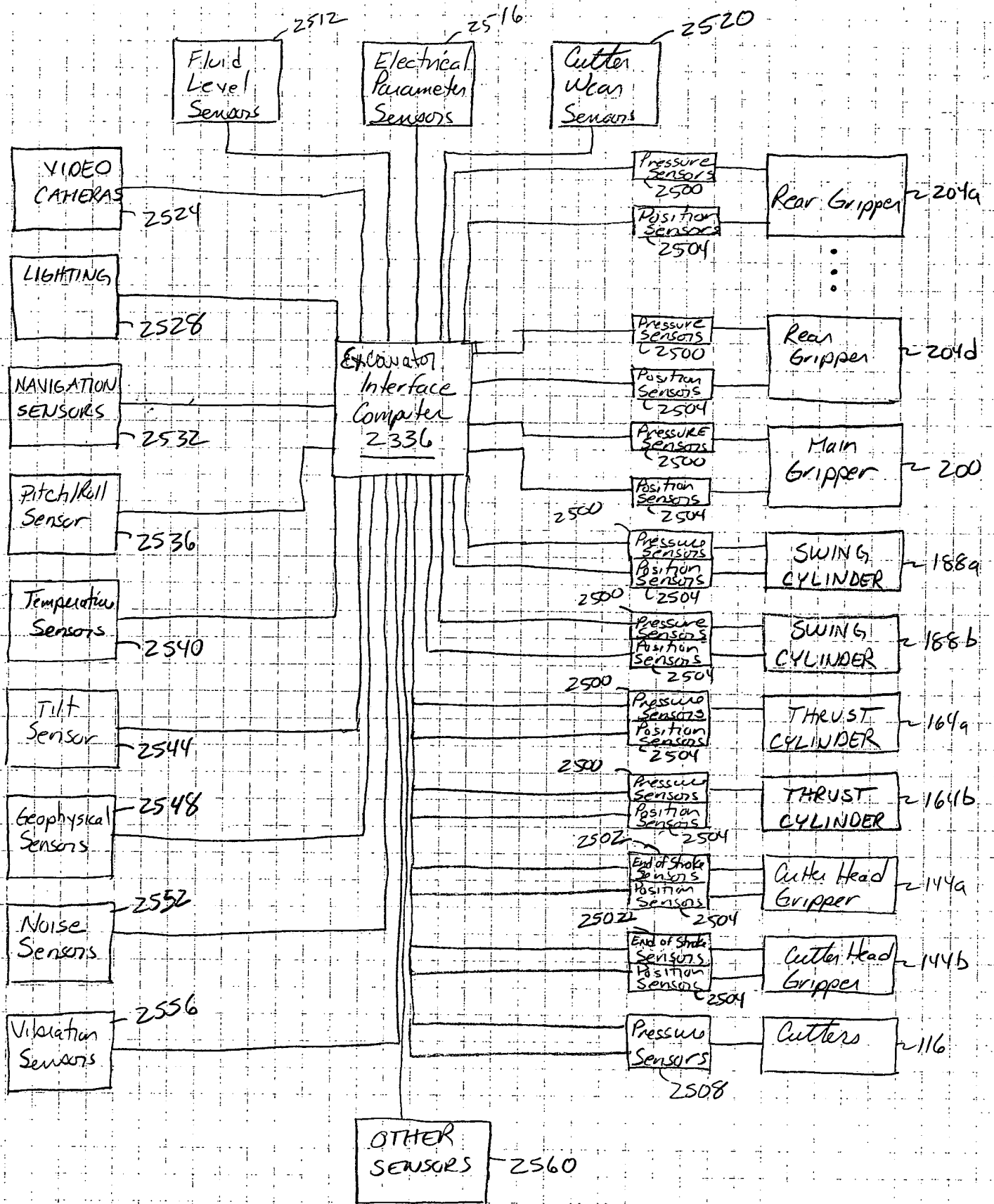


FIG. 25

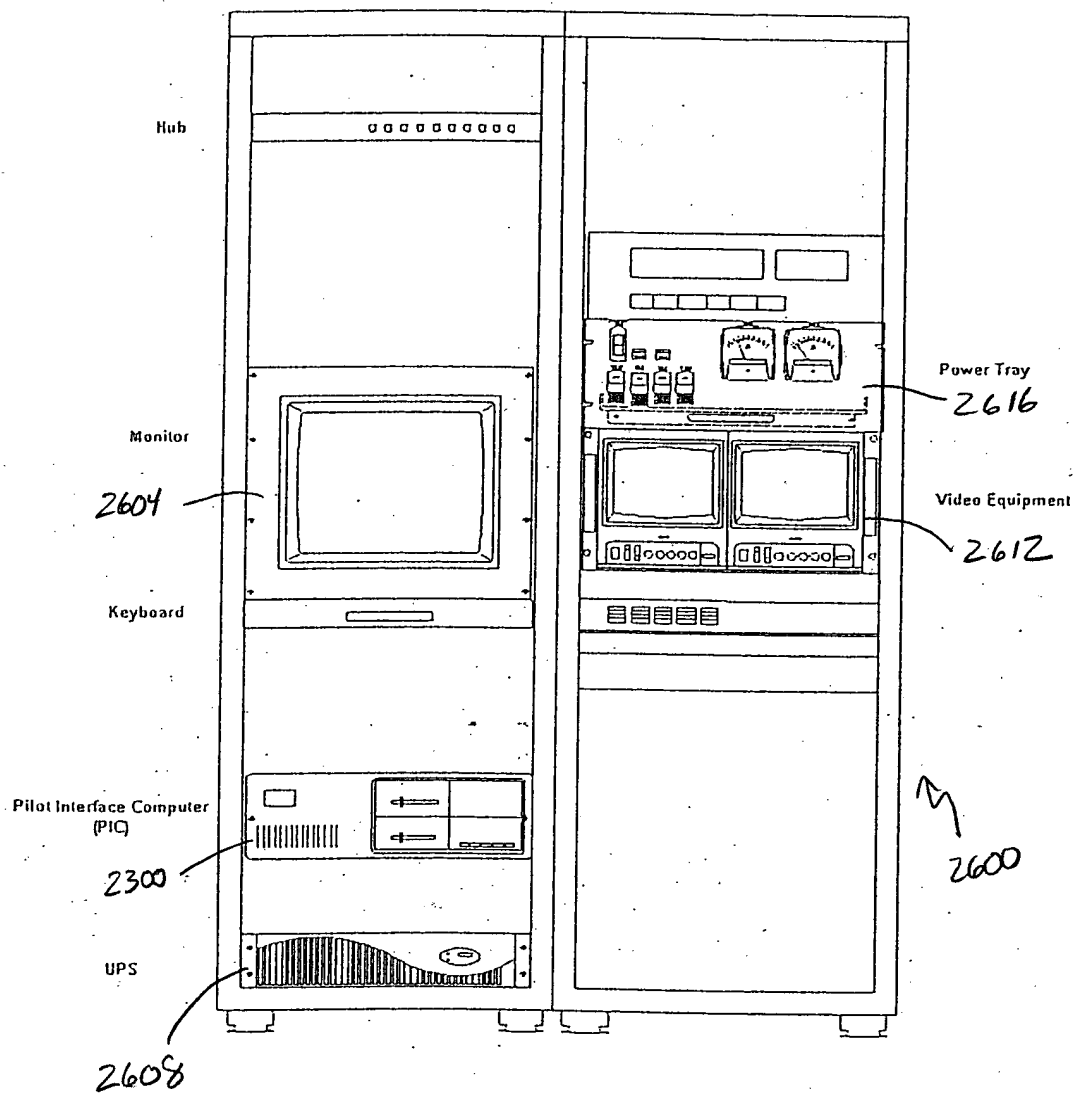
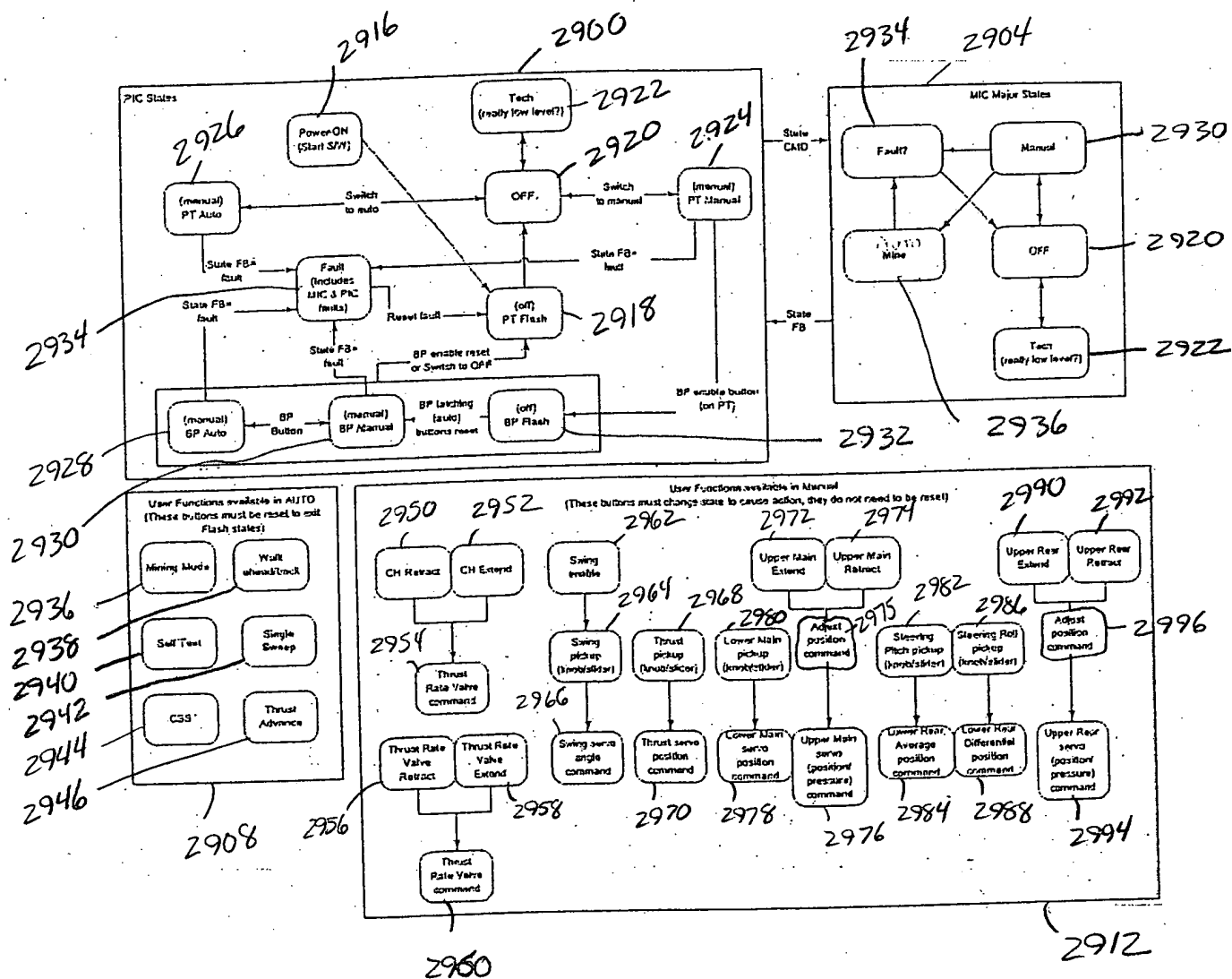


FIG. 26







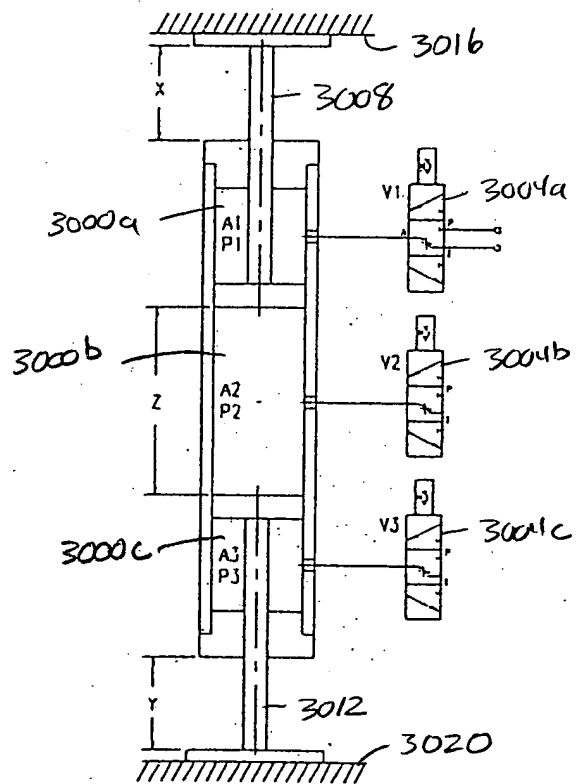


FIG. 30

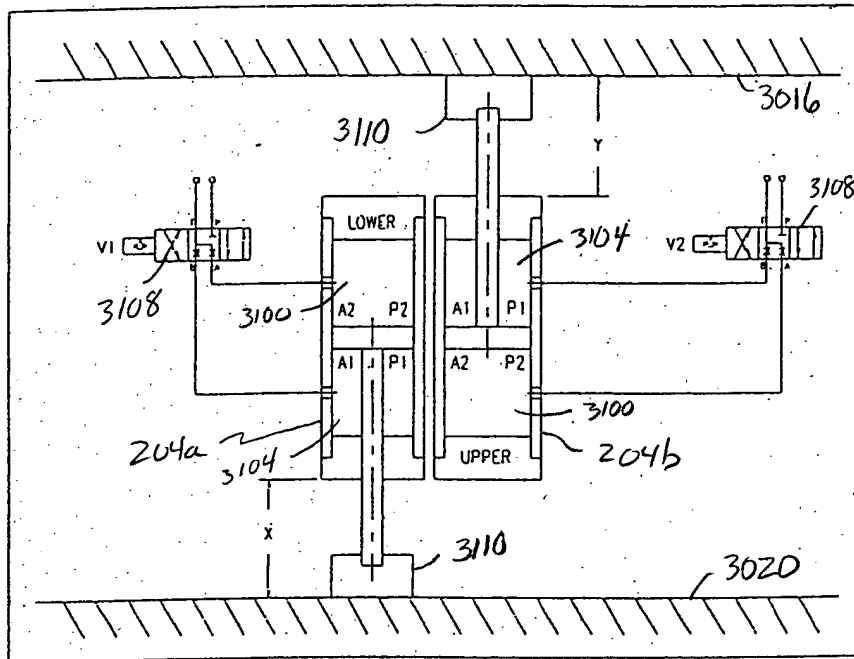
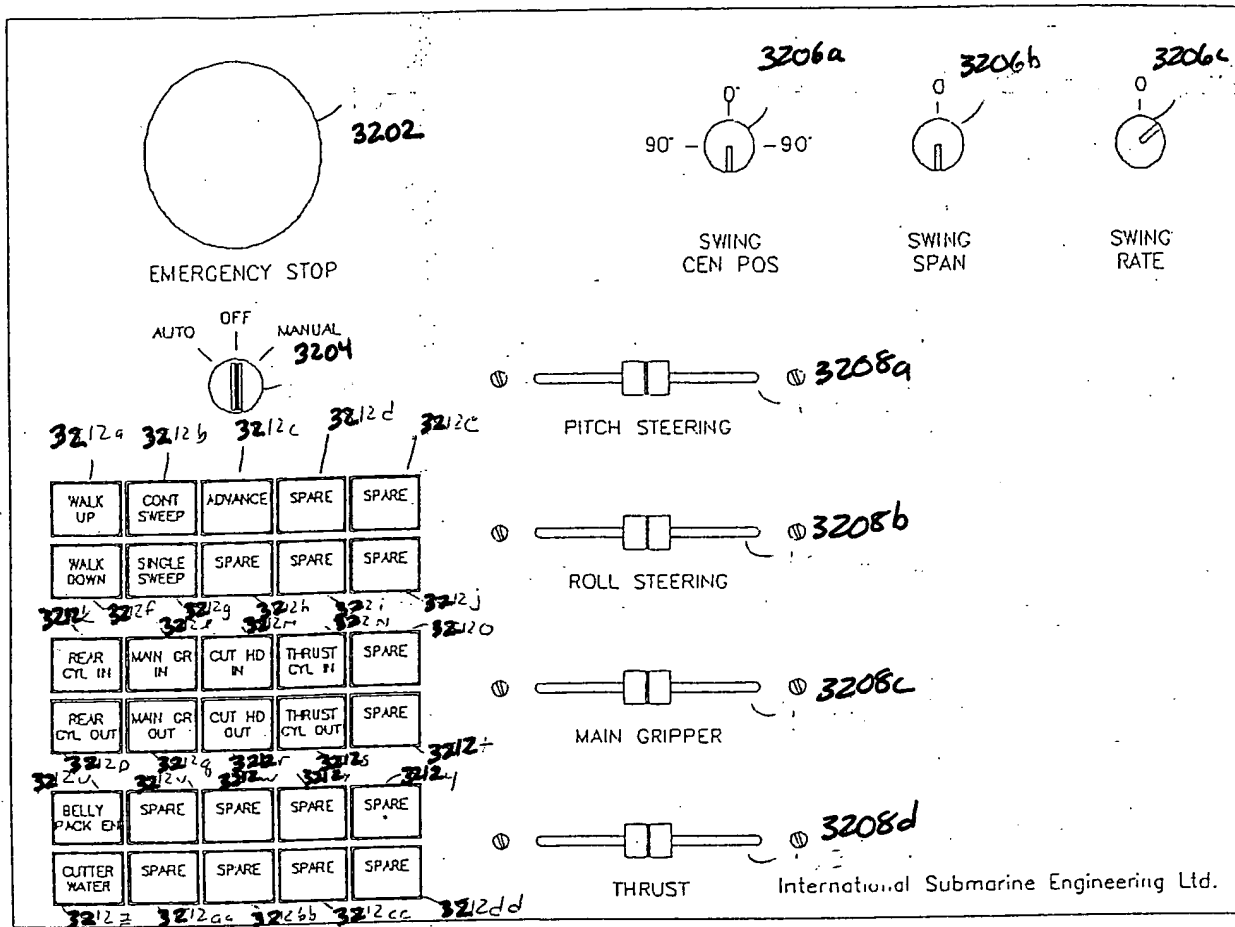


FIG. 31



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FIG. 32

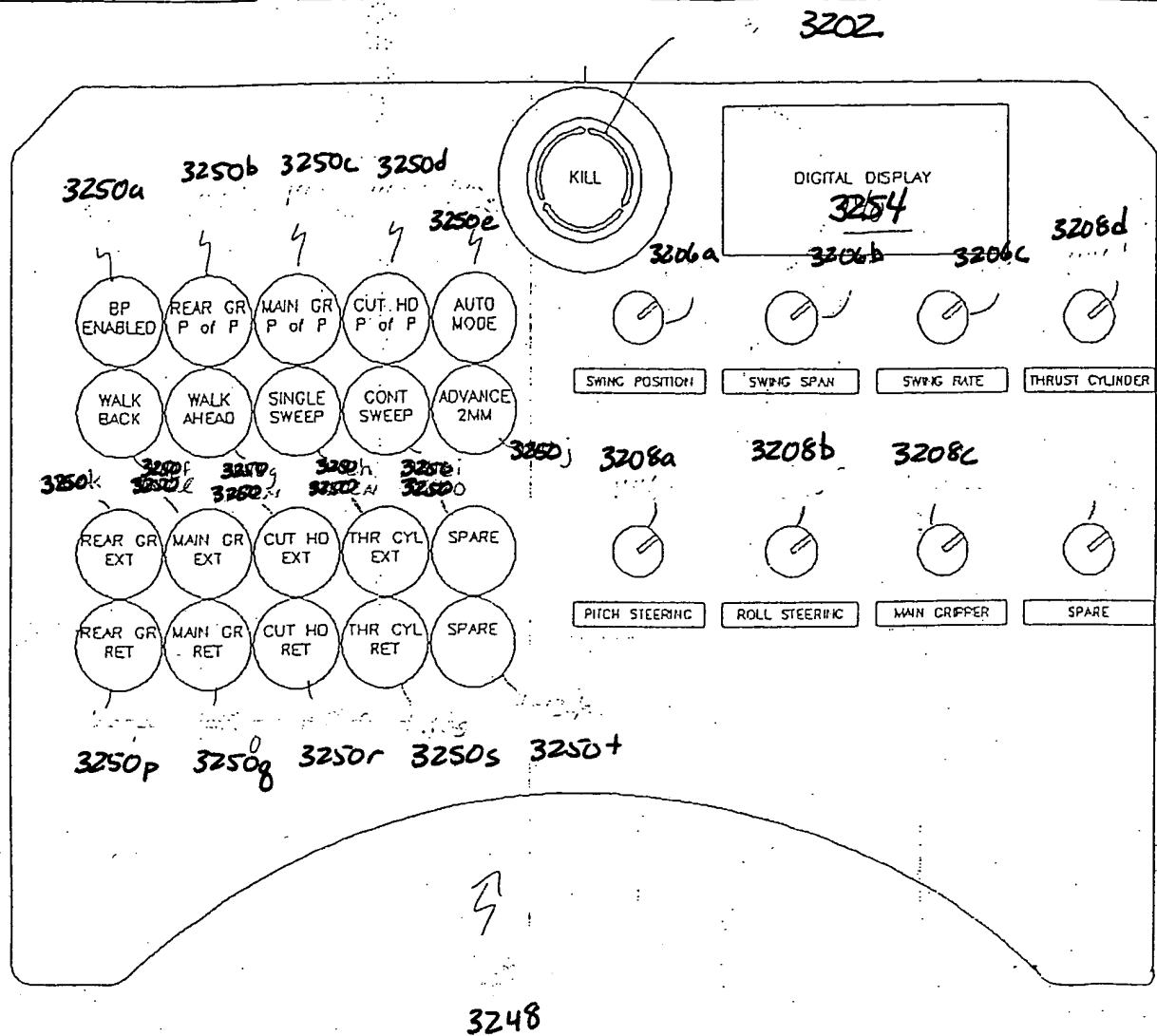


FIG. 33

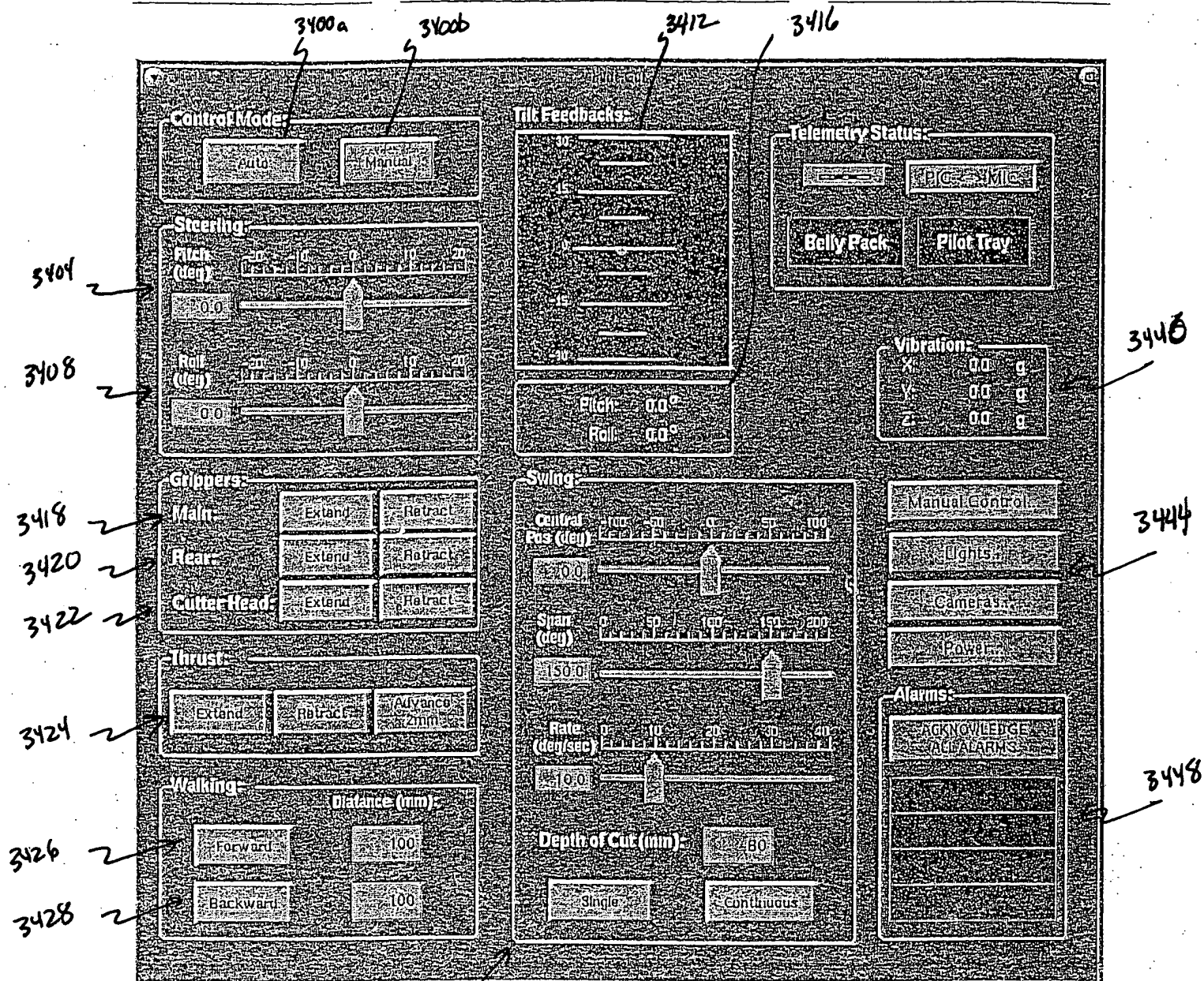


Figure 5-1: Example Pilot GUI

FIG. 34

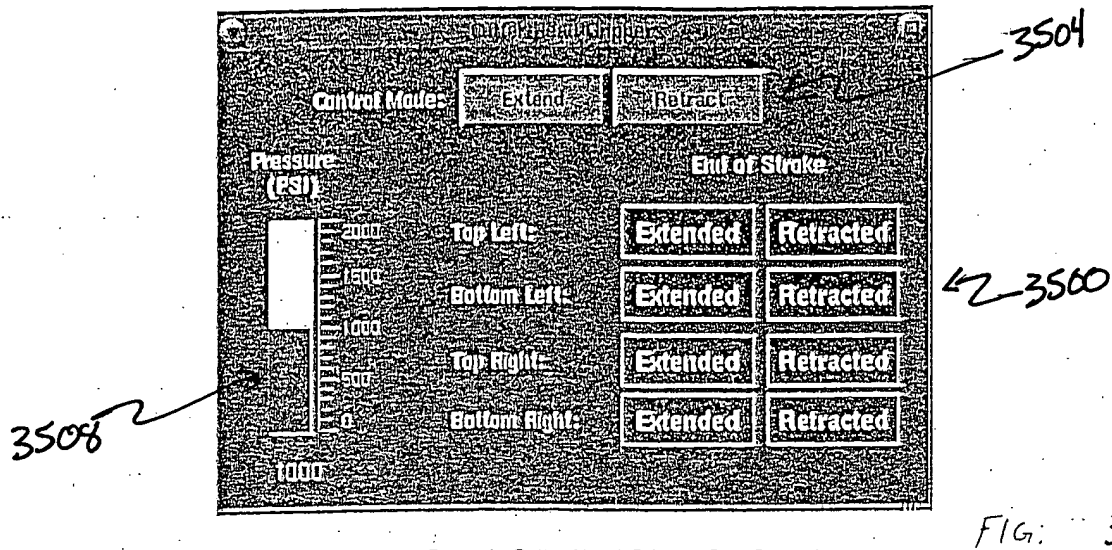


Figure 5-2: Example Cutter Head Gripper GUI Controls

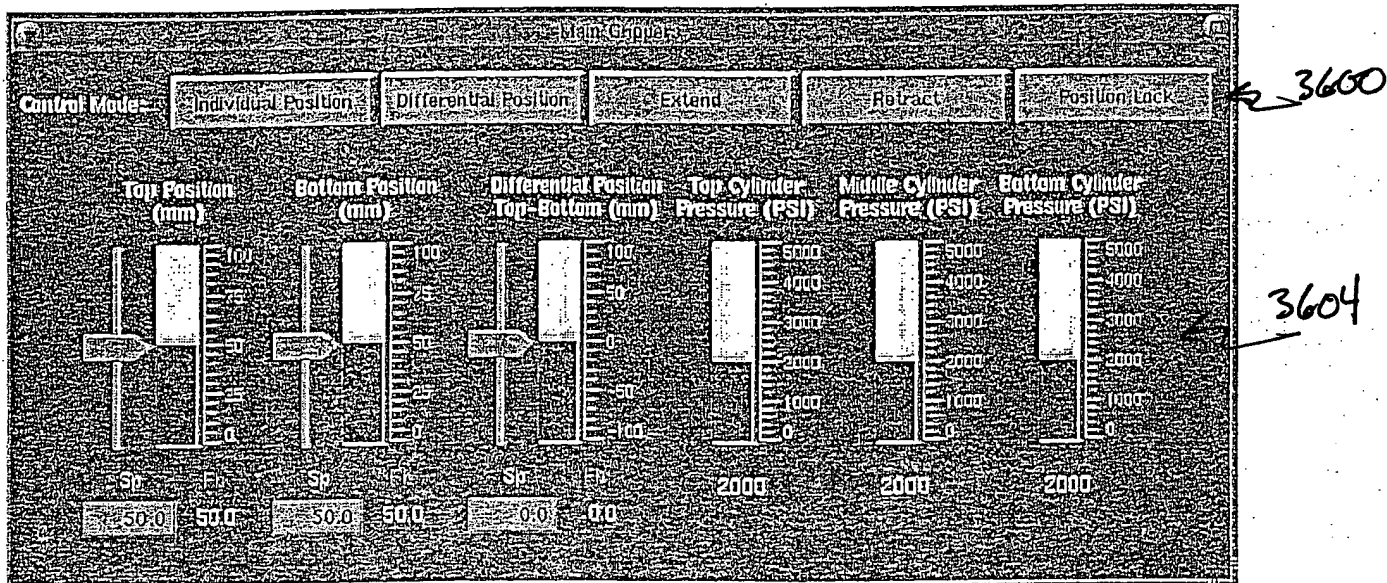
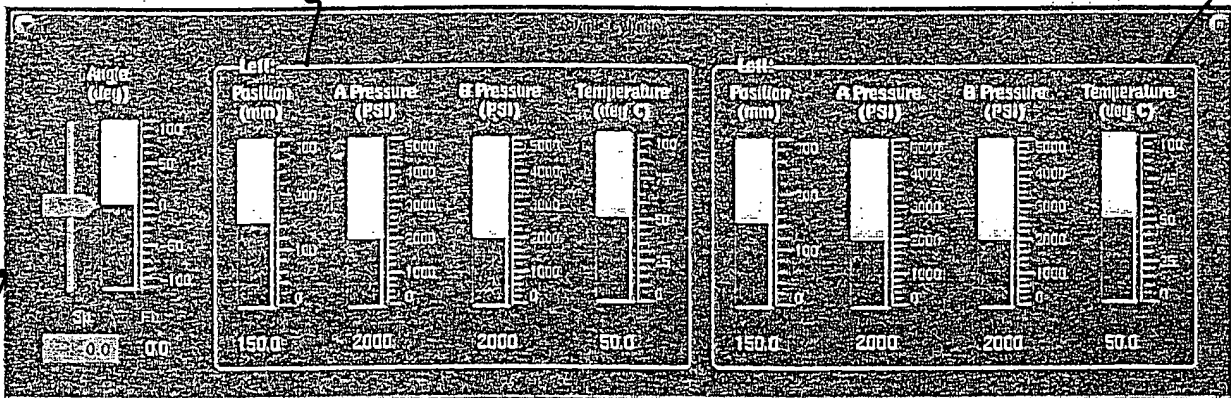
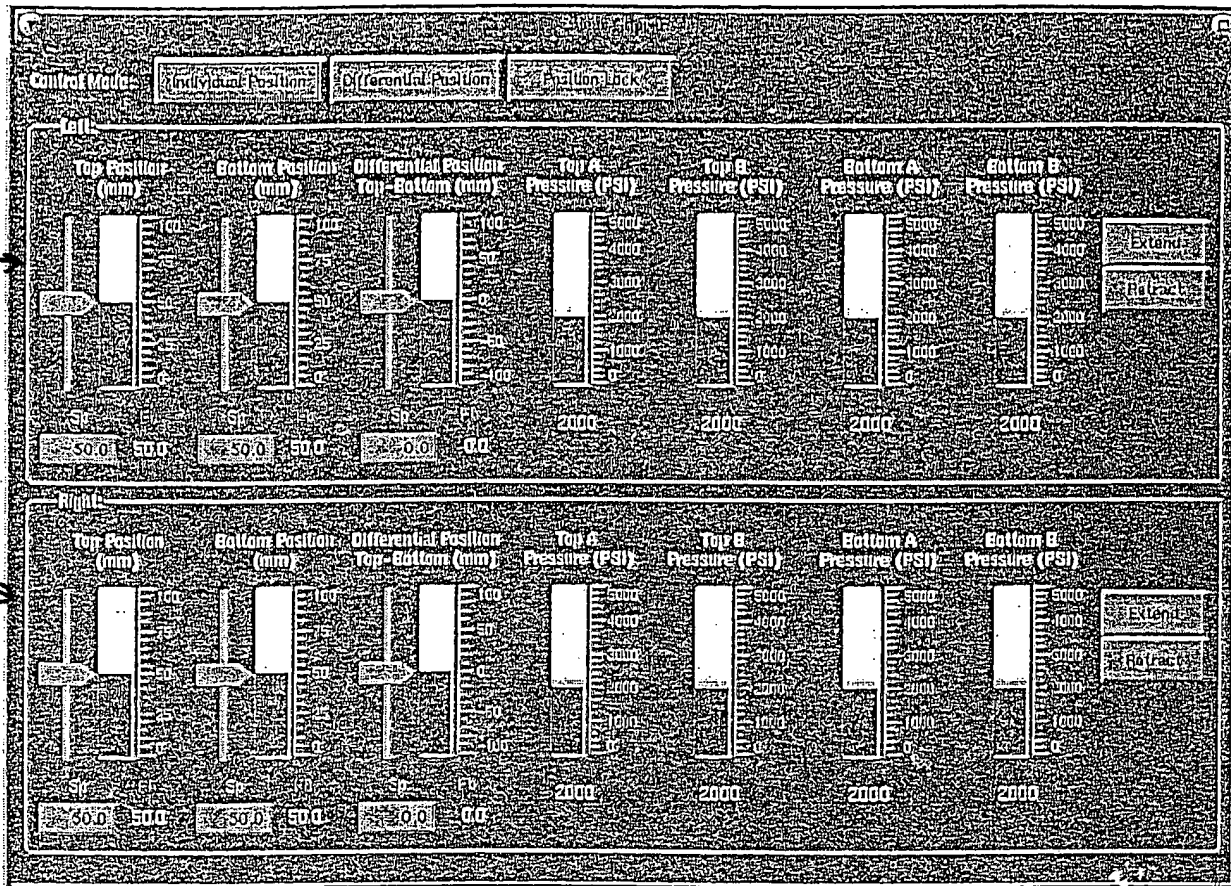


Figure 5-3: Example Main Gripper GUI Controls

FIG. 36



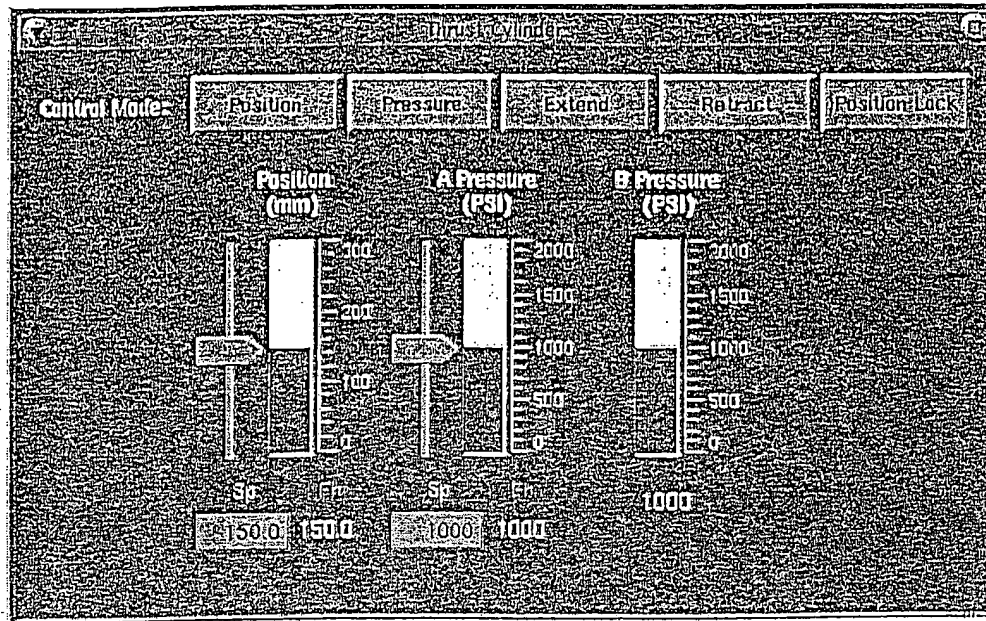


Figure 5-6: Example Thrust Cylinder GUI Controls

FIG. 21-39



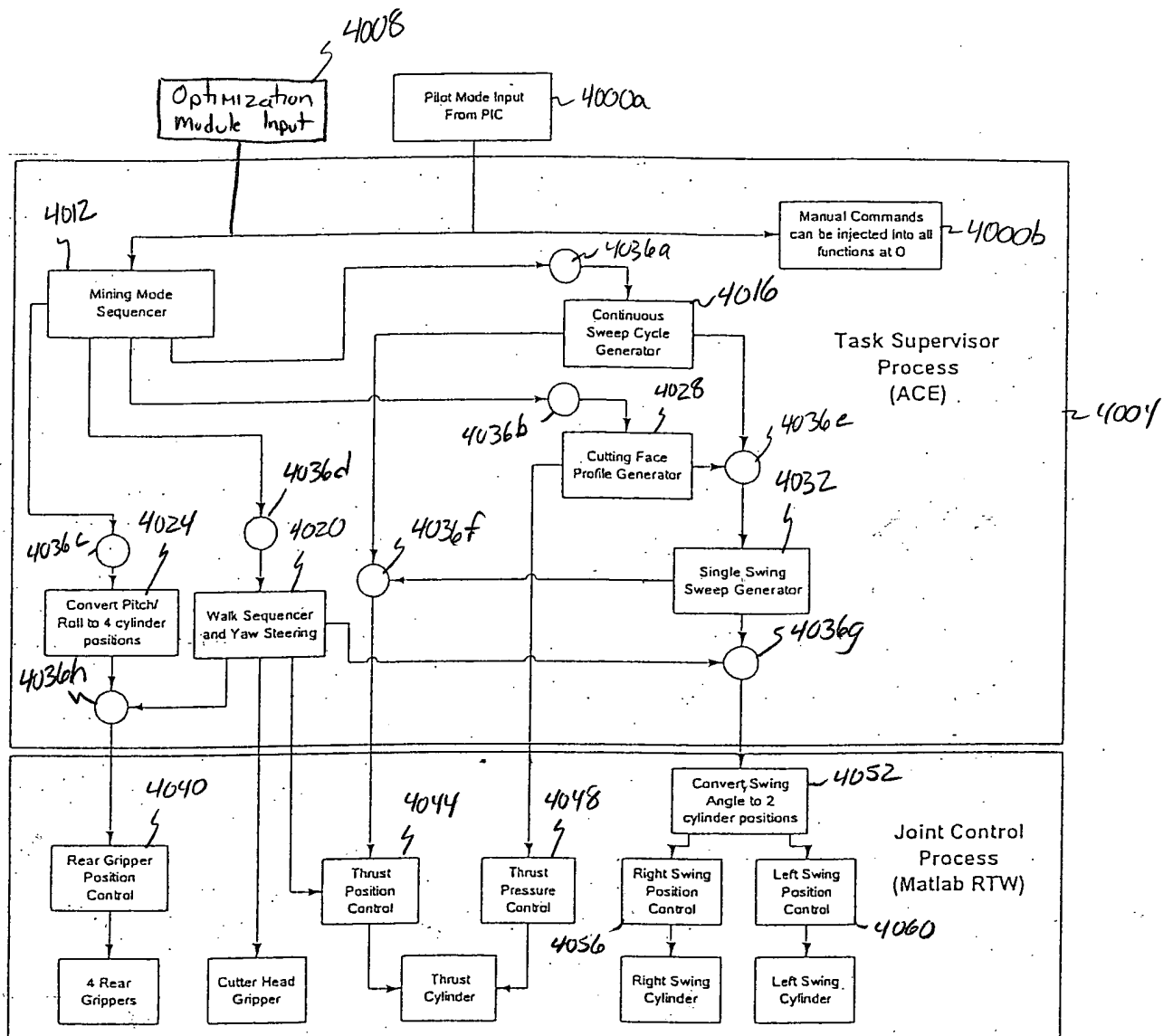


FIG. 40

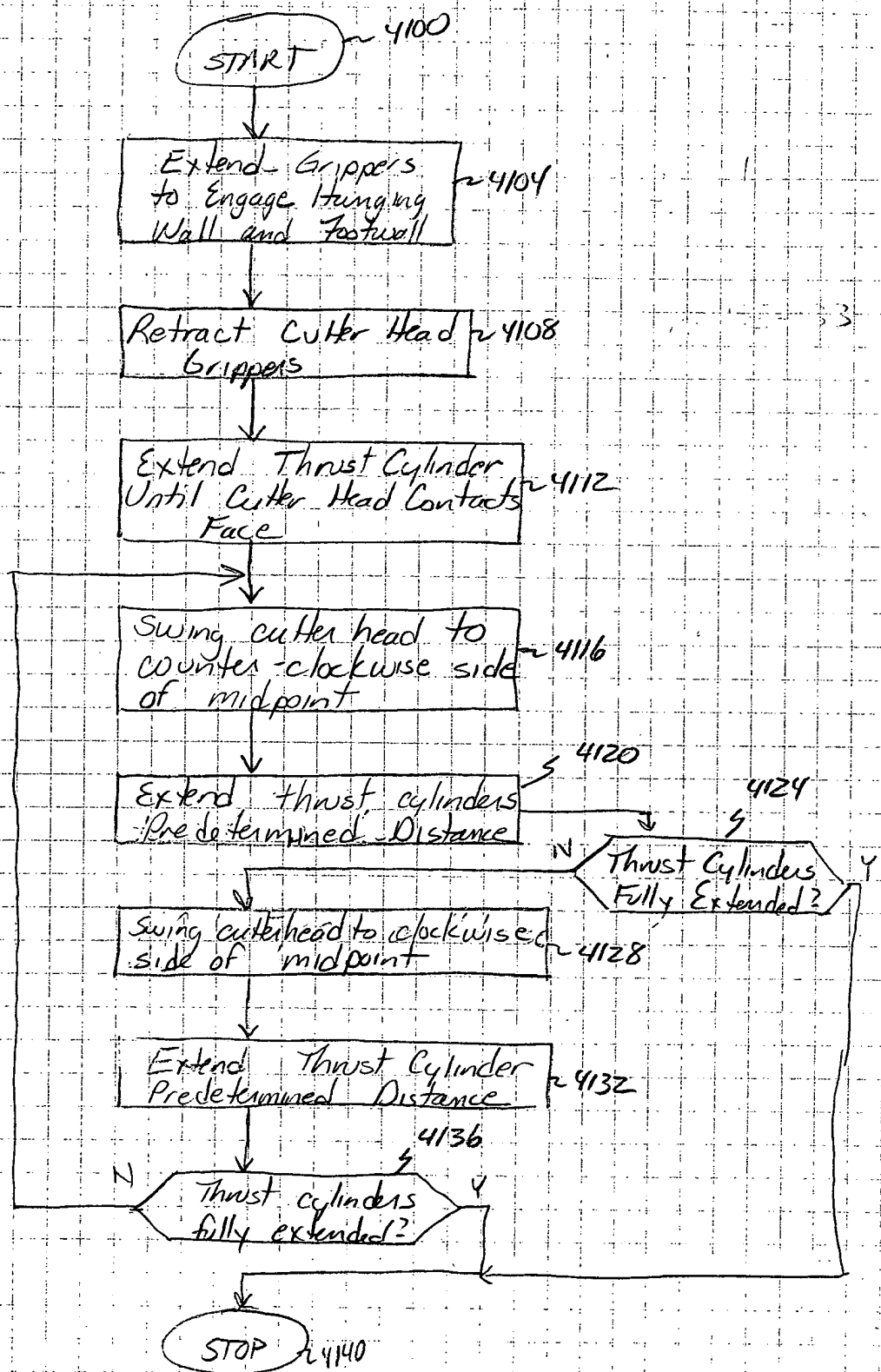


FIG. 41

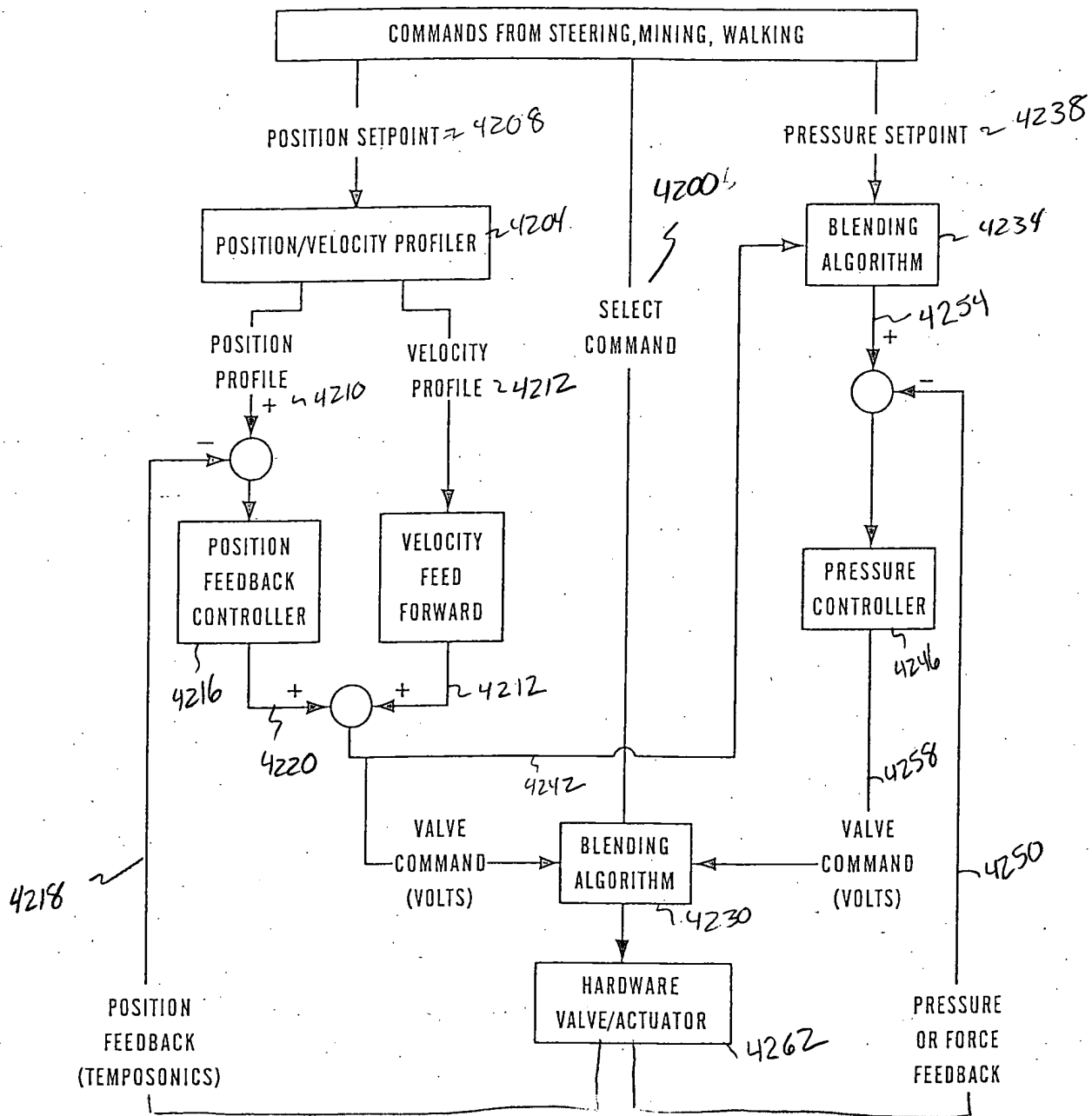
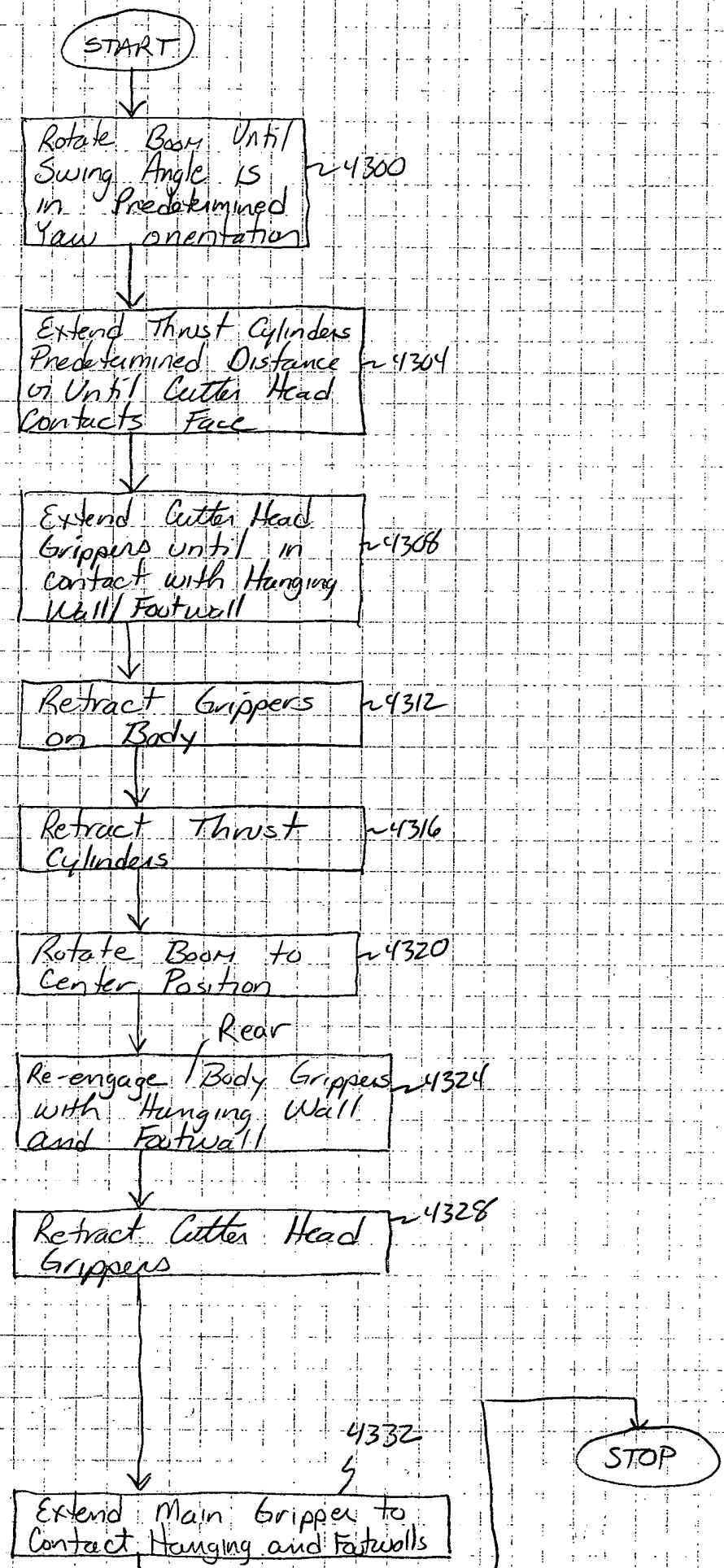


FIG. 25 42



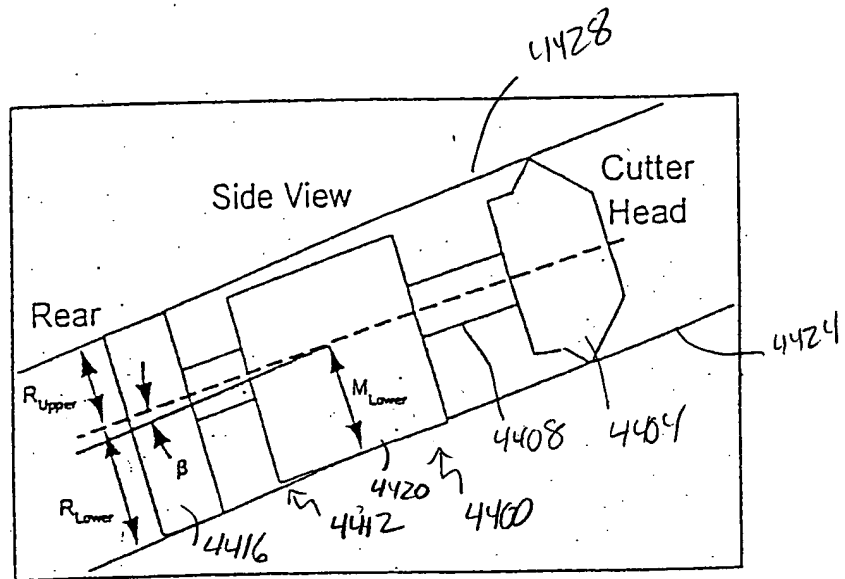


FIG. 44

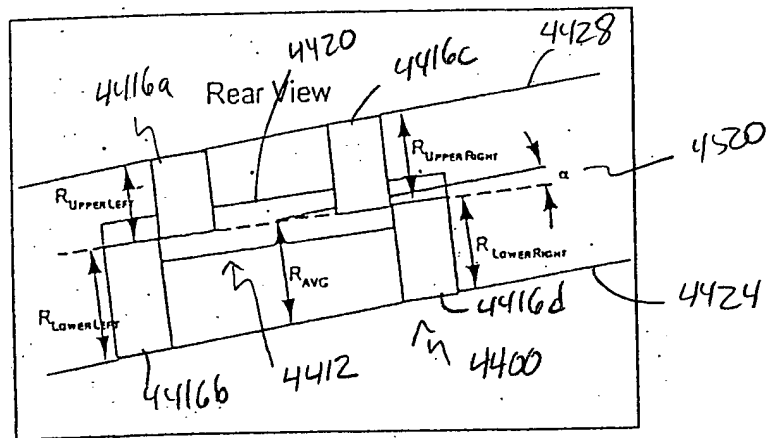


FIG. 45

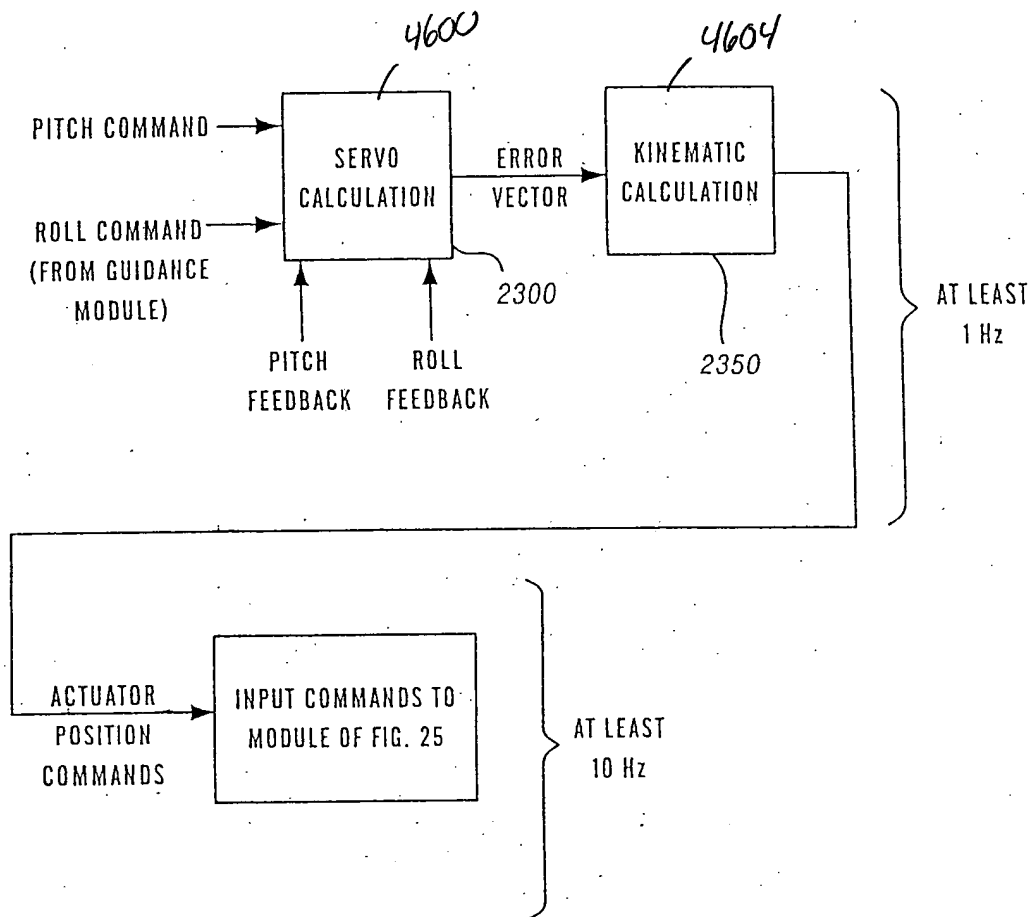


FIG. 46

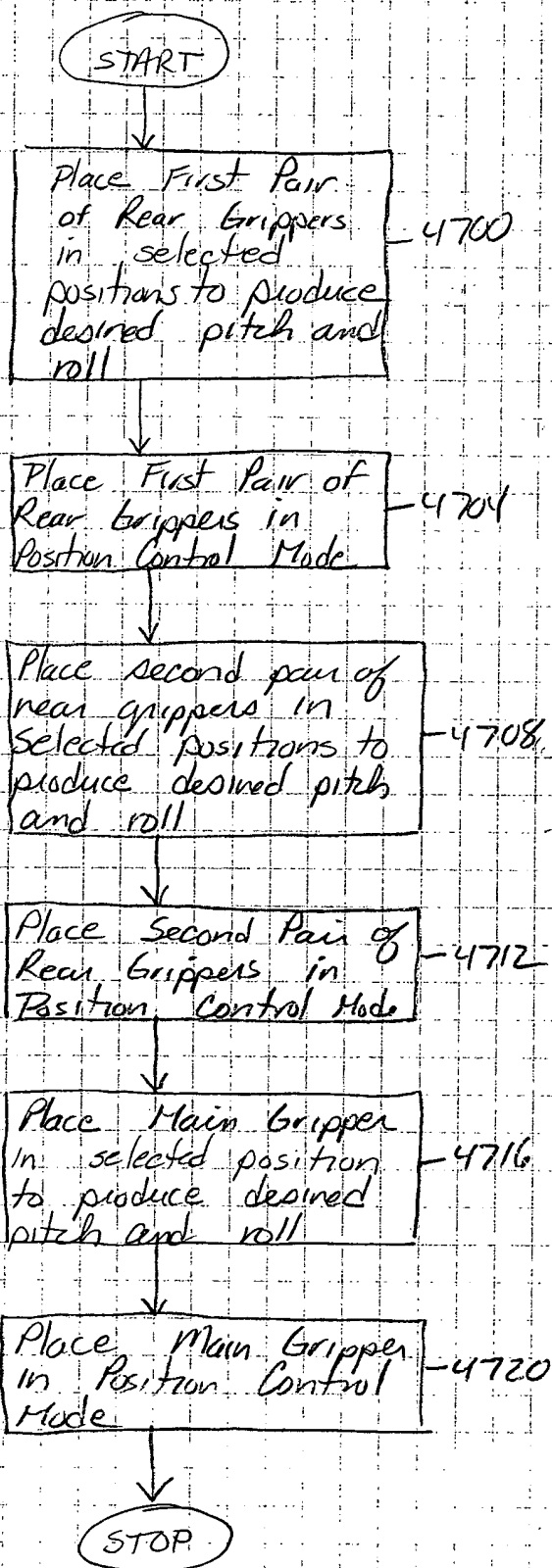


FIG. 47



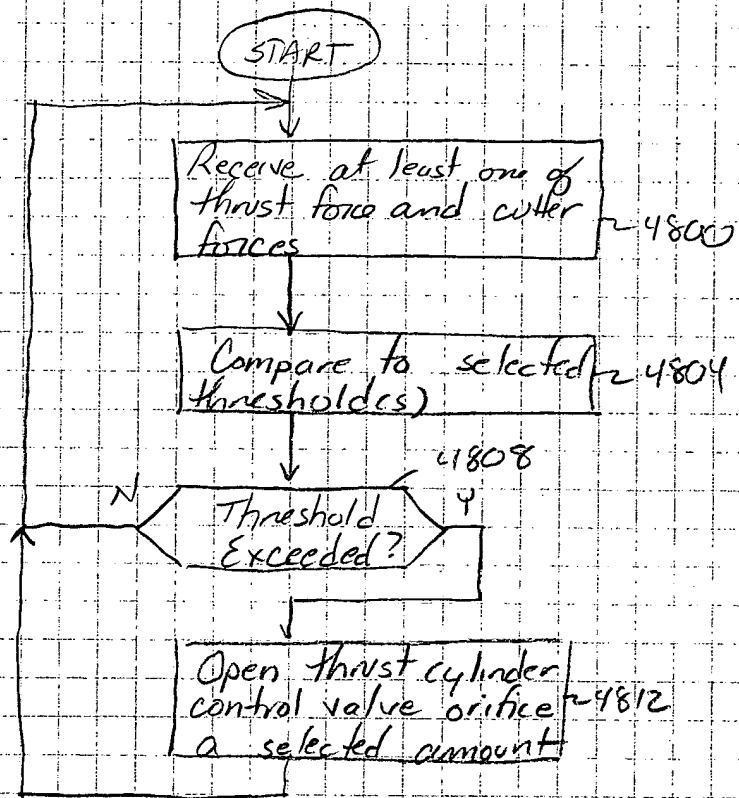


FIG. 48

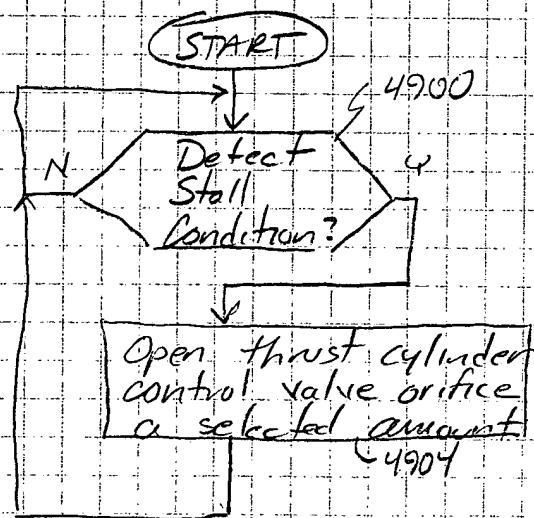


FIG. 49